

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 04:03:11 ; Search time 919.446 Seconds

(without alignments)
989.948 Million cell updates/sec

Title: US-09-940-860-4

Perfect score: 1 gtcgcagcagcagcgtata 21

Sequence: OLIGO_NUC
Gapcp 60.0, Gapext 60.0

Scoring table: 3470272 seqs, 2167151695 residues

Searched: Word size : 0

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: listing first 45 summaries

Database :

GenEmbl: 1: gb_ba: 2: gb_hlg: 3: gb_in: 4: gb_om: 5: gb_ov: 6: gb_pat: 7: gb_ph: 8: gb_pl: 9: gb_pr: 10: gb_ro: 11: gb_sts: 12: gb_sy: 13: gb_un: 14: gb_vi: 15: em_ba: 16: em_fun: 17: em_hum: 18: em_in: 19: em_mu: 20: em_om: 21: em_or: 22: em_ov: 23: em_pac: 24: em_ph: 25: em_pl: 26: em_ro: 27: em_sts: 28: em_un: 29: em_vi: 30: em_hlg_hum: 31: em_hlg_inw: 32: em_hlg_other: 33: em_hlg_mus: 34: em_hlg_pln: 35: em_hlg_rtd: 36: em_hlg_mam: 37: em_hlg_vrt: 38: em_sy: 39: em_hlgo_hum: 40: em_hlgo_mus: 41: em_hlgo_other:

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	21	100.0	410	1	AF128731
2	21	100.0	420	1	AF128692
3	21	100.0	434	1	AF247784
4	21	100.0	440	1	AF128656
5	21	100.0	495	8	AF442311
6	21	100.0	500	1	AF280951
7	21	100.0	508	1	AF193254
8	21	100.0	517	1	AF193029
9	21	100.0	525	1	AF193103
10	21	100.0	529	3	AF293558
11	21	100.0	534	8	AF442312
12	21	100.0	550	1	AF128705
13	21	100.0	552	8	AF442310
14	21	100.0	559	1	AF037640
15	21	100.0	564	1	AF193243
16	21	100.0	572	1	AF037568
17	21	100.0	575	1	AF037566
18	21	100.0	585	1	AF432842
19	21	100.0	600	8	AF442309
20	21	100.0	620	1	AF242747
21	21	100.0	620	1	AF242748
22	21	100.0	621	1	AF037626
23	21	100.0	648	3	AF293557
24	21	100.0	650	1	AF037620
25	21	100.0	670	1	AF193253
26	21	100.0	702	1	AF469392
27	21	100.0	756	1	AF245484
28	21	100.0	766	1	AF193246
29	21	100.0	771	1	AF469403
30	21	100.0	784	1	AF469398
31	21	100.0	796	1	AF245486
32	21	100.0	824	1	AF469407
33	21	100.0	935	3	PFAMTSU
34	21	100.0	939	3	AF040972
35	21	100.0	949	3	AF040974
36	21	100.0	956	1	GS16SJS9
37	21	100.0	961	3	AF040968
38	21	100.0	991	1	AF172925
39	21	100.0	991	1	AF172926
40	21	100.0	991	1	AF193166
41	21	100.0	995	1	AF172927
42	21	100.0	998	3	AF040976
43	21	100.0	1013	3	AF040975
44	21	100.0	1023	1	AF193167
45	21	100.0	1024	1	AF193190

ALIGNMENTS

RESULT 1
LOCUS AF128731 410 bp DNA linear BCT 10-MAY-1999
DEFINITION Uncultured soil bacterium C065 16S ribosomal RNA, partial sequence.
ACCESSION AF128731
VERSION AF128731.1 GI:4761945
KEYWORDS
SOURCE uncultured soil bacterium C065
ORGANISM uncultured soil bacterium C065
Bacteria; environmental samples.
REFERENCE 1 (bases 1 to 410)
Dunbar,J., Takala,S., Bams,S.M., Davis,J.A. and Kuske,C.R.
Levels of bacterial community diversity in four arid soils compared
by cultivation and 16S rRNA gene cloning
Appl. Environ. Microbiol. 65 (4), 1662-1669 (1999)
JOURNAL

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MEDLINE      99203125
PUBMED       10103265
REFERENCE    2 (bases 1 to 410)
AUTHORS      Dunbar,J., Takala,S., Barns,S.M., Davis,J.A. and Kuske,C.R.
TITLE        Direct Submission
JOURNAL      Submitted (15-FEB-1999) Environmental Molecular Biology, Life
              Sciences Division, Los Alamos National Laboratory, M888, Los
              Alamos, NM 87545, USA
FEATURES     Location/Qualifiers
              source
                1..410
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                /mol_type="genomic DNA"
                /db_xref="taxon:92353"
                /clone="C065"
                <1..>410
                /product="16S ribosomal RNA"

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Best Local Similarity 100.0%; Pred. No. 3.9e+02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1 GTGCCAGCAGCGGTAATA 21
DB      171 GTGCCAGCAGCGGTAATA 191

RESULT 2
LOCUS      AF128692                      420 bp    DNA          linear    BCT 10-MAY-1999
DEFINITION Uncultured soil bacterium S079 16S ribosomal RNA, partial sequence.
ACCESSION  AF128692
VERSION     AF128692.1 GI:4761906
KEYWORDS
SOURCE      uncultured soil bacterium S079
ORGANISM    Bacteria; environmental samples.
REFERENCE   1 (bases 1 to 420)
            Dunbar,J., Takala,S., Barns,S.M., Davis,J.A. and Kuske,C.R.
            Levels of bacterial community diversity in four arid soils compared
            by cultivation and 16S rRNA gene cloning
            Appl. Environ. Microbiol. 65 (4), 1662-1669 (1999)
JOURNAL     99203125
PUBMED      10103265
REFERENCE   2 (bases 1 to 420)
            Dunbar,J., Takala,S., Barns,S.M., Davis,J.A. and Kuske,C.R.
            Direct Submission
            Submitted (15-FEB-1999) Environmental Molecular Biology, Life
            Sciences Division, Los Alamos National Laboratory, M888, Los
            Alamos, NM 87545, USA
FEATURES     Location/Qualifiers
              source
                1..420
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                /mol_type="genomic DNA"
                /db_xref="taxon:92314"
                /clone="S079"
                <1..>420
                /product="16S ribosomal RNA"

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Best Local Similarity 100.0%; Pred. No. 3.8e+02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1 GTGCCAGCAGCGGTAATA 21
DB      202 GTGCCAGCAGCGGTAATA 222

RESULT 3
LOCUS      AF247784                      434 bp    DNA          linear    BCT 08-SEP-2000
DEFINITION Soil clone WD5 16S ribosomal RNA gene, partial sequence.

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ACCESSION    AF247784
VERSION      AF247784.2 GI:9994208
KEYWORDS
SOURCE      soil clone WD5
ORGANISM    Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales;
              Sphingomonadaceae; environmental samples.
REFERENCE    1 (bases 1 to 434)
            Dejonghe,W., Goris,J., El Fantoussi,S., Hofte,M., De Vos,P.,
            Verstraete,W. and Top,E.M.
            Effect of dissemination of 2,4-dichlorophenoxyacetic acid (2,4-D)
            degradation plasmids on 2,4-D degradation and on bacterial
            community structure in two different soil horizons
            Appl. Environ. Microbiol. 66 (8), 3297-3304 (2000)
JOURNAL     20378631
MEDLINE     10919784
PUBMED      10919784
REFERENCE    2 (bases 1 to 434)
            Dejonghe,W.L., Goris,J., El Fantoussi,S., Hofte,M., De Vos,P.,
            Verstraete,W. and Top,E.M.
            Direct Submission
            Submitted (23-MAR-2000) Faculty of Agricultural and Applied
            Biological Sciences, Gent University, Coupure Links 653, Gent 9000,
            Belgium
            3 (bases 1 to 434)
            Dejonghe,W.L., Goris,J., El Fantoussi,S., Hofte,M., De Vos,P.,
            Verstraete,W. and Top,E.M.
            Direct Submission
            Submitted (08-SEP-2000) Faculty of Agricultural and Applied
            Biological Sciences, Gent University, Coupure Links 653, Gent 9000,
            Belgium
REMARK       Sequence update by submitter
COMMENT      On Sep 8, 2000 this sequence version replaced gi:9864056.
FEATURES     Location/Qualifiers
              source
                1..434
                /organism="soil clone WD5"
                /mol_type="genomic DNA"
                /db_xref="taxon:135645"
                /note="isolated from B-horizon at a depth of 30-60 cm"
                <1..>434
                /product="16S ribosomal RNA"

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Best Local Similarity 100.0%; Pred. No. 3.8e+02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1 GTGCCAGCAGCGGTAATA 21
DB      413 GTGCCAGCAGCGGTAATA 433

RESULT 4
LOCUS      AF128656                      440 bp    DNA          linear    BCT 10-MAY-1999
DEFINITION Uncultured soil bacterium C0108 16S ribosomal RNA, partial
              sequence.
ACCESSION    AF128656
VERSION      AF128656
KEYWORDS
SOURCE      uncultured soil bacterium C0108
ORGANISM    Bacteria; environmental samples.
REFERENCE    1 (bases 1 to 440)
            Dunbar,J., Takala,S., Barns,S.M., Davis,J.A. and Kuske,C.R.
            Levels of bacterial community diversity in four arid soils compared
            by cultivation and 16S rRNA gene cloning
            Appl. Environ. Microbiol. 65 (4), 1662-1669 (1999)
JOURNAL     99203125
MEDLINE     10103265
PUBMED      10103265
REFERENCE    2 (bases 1 to 440)
            Dunbar,J., Takala,S., Barns,S.M., Davis,J.A. and Kuske,C.R.
            Direct Submission
            Submitted (15-FEB-1999) Environmental Molecular Biology, Life

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Sciences Division, Los Alamos National Laboratory, M888, Los Alamos, NM 87545, USA

FEATURES

source

1..440
/organism="uncultured soil bacterium C0108"
/mol_type="genomic DNA"
/db_xref="taxon:92278"
/clone="C0108"
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/product="16S ribosomal RNA"

ORIGIN

Query Match 100.0%; Score 21; DB 1; Length 440;
Best Local Similarity 100.0%; Pred. No. 3.7e+02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGGTATA 21
|||||
Db 200 GTGCCAGCAGCAGCGGTATA 220

RESULT 5
AF442311 495 bp DNA linear PLN 11-JUN-2003
LOCUS Tetrapistispora arboricola small subunit ribosomal RNA gene, partial
DEFINITION sequence; mitochondrial gene for mitochondrial product.

ACCESSION AF442311.1 GI:31581325
VERSION AF442311.1

KEYWORDS
SOURCE
ORGANISM
mitochondrion Tetrapistispora arboricola
Tetrapistispora arboricola
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;

REFERENCE
AUTHORS
TITLE
1 (bases 1 to 495)
Kurtzman, C.P. and Robnett, C.J.
Phylogenetic relationships among yeasts of the 'Saccharomyces complex' determined from multigene sequence analyses

JOURNAL
MEDLINE
22633405
FEMS Yeast Res. 3 (4), 417-432 (2003)

PUBMED
12748053

REFERENCE
AUTHORS
TITLE
2 (bases 1 to 495)
Kurtzman, C.P. and Robnett, C.J.
Direct Submission

JOURNAL
Submitted (02-NOV-2001) United States Department of Agriculture,
National Center for Agricultural Utilization Research, 1815 N.

University St., Peoria, IL 61604, USA

FEATURES

source

1..495
/organism="Tetrapistispora arboricola"
/organelle="mitochondrion"
/mol_type="genomic DNA"
/strain="NRRL Y-27308"
/db_xref="taxon:113605"
/clone="A314"
<1..>495
/product="small subunit ribosomal RNA"

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 3.6e+02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGGTATA 21
|||||
Db 114 GTGCCAGCAGCAGCGGTATA 134

RESULT 6
AF280951 500 bp DNA linear BCT 09-JUL-2001
LOCUS Uncultured bacterium clone Jsl1 16S ribosomal RNA gene, partial
DEFINITION sequence.

ACCESSION
AF280951

VERSION AF280951.1 GI:9255904
KEYWORDS
SOURCE
ORGANISM
uncultured bacterium
uncultured bacterium
Bacteria; environmental samples.

REFERENCE
AUTHORS
TITLE
1 (bases 1 to 500)
Stach, J.E., Bathe, S., Clapp, J.P. and Burns, R.G.
PCR-SSCP comparison of 16S rDNA sequence diversity in soil DNA
obtained using different isolation and purification methods

JOURNAL
FEMS Microbiol. Ecol. 36 (2-3), 139-151 (2001)

PUBMED
11451518

REFERENCE
AUTHORS
TITLE
2 (bases 1 to 500)
Stach, J.E., Bathe, S. and Burns, R.G.
Evaluation and Optimization of DNA extraction and Purification from
soil by Single-Strand-Conformation Polymorphism

JOURNAL
Unpublished
3 (bases 1 to 500)
Stach, J.E., Bathe, S. and Burns, R.G.
Direct Submission

JOURNAL
Submitted (20-JUN-2000) Biosciences, University of Kent at
Canterbury, University Rd, Canterbury, Kent CT2 7NU, England

FEATURES

source

1..500
/organism="uncultured bacterium"
/mol_type="genomic DNA"
/db_xref="taxon:77133"
/clone="US11"
/note="environmental clone"
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/product="16S ribosomal RNA"

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 3.6e+02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGGTATA 21
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Db 135 GTGCCAGCAGCAGCGGTATA 155

RESULT 7
AY193254 508 bp DNA linear BCT 19-FEB-2003
LOCUS Uncultured bacterium clone Bol164 16S ribosomal RNA gene, partial
DEFINITION sequence.

ACCESSION AY193254.1 GI:28436012
VERSION AY193254.1
KEYWORDS
SOURCE
ORGANISM
uncultured bacterium
uncultured bacterium
Bacteria; environmental samples.

REFERENCE
AUTHORS
TITLE
1 (bases 1 to 508)
Harris, J.Kirk., Kelley, S.T. and Pace, N.R.
New perspective on uncultured bacterial phylogenetic division OP11

JOURNAL
Unpublished
2 (bases 1 to 508)
Harris, J.Kirk., Kelley, S.T. and Pace, N.R.
Direct Submission

JOURNAL
Submitted (10-DEC-2002) Molecular, Cellular and Developmental
Biology, University of Colorado, Campus box 347, Boulder, CO 80309,
USA

FEATURES

source

1..508
/organism="uncultured bacterium"
/mol_type="genomic DNA"
/isolation_source="marine sediment"
/db_xref="taxon:77133"
/clone="Bol164"
/environmental_sample
<1..>508
/product="16S ribosomal RNA"

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 3.6e+02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 100.0%; Score 21; DB 1; Length 508;
 Best Local Similarity 100.0%; Pred. No. 3.5e+02;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCGGTAATA 21
 |||||
 430 GTGCCAGCAGCGGTAATA 450

RESULT 8

AY193029

LOCUS 517 bp DNA linear BCT 19-FRB-2003
 DEFINITION Uncultured candidate division Op11 bacterium clone WSA86 16S
 ribosomal RNA gene, partial sequence.

ACCESSION AY193029
 VERSION AY193029.1 GI:28435787

SOURCE

ORGANISM uncultured candidate division Op11 bacterium
 uncultured candidate division Op11 bacterium
 Bacteria; candidate division Op11; environmental samples.

REFERENCE

1 (bases 1 to 517)
 HARRIS,J.Kirk., Kelley,S.T. and Pace,N.R.
 New perspective on uncultured bacterial phylogenetic division Op11

REFERENCE 2 (bases 1 to 517)
 HARRIS,J.Kirk., Kelley,S.T. and Pace,N.R.
 Direct Submission
 Submitted (10-DEC-2002) Molecular, Cellular and Developmental
 Biology, University of Colorado, Campus box 347, Boulder, CO 80309,
 USA

FEATURES

source

Location/Qualifiers
 1..517
 /organism="uncultured candidate division Op11 bacterium"
 /mol_type="genomic DNA"
 /isolation_source="contaminated aquifer"
 /db_xref="taxon:174293"
 /clone="WSA86"
 /environmental_sample
 <1..517
 /product="16S ribosomal RNA"

ORIGIN

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 Best Local Similarity 100.0%; Pred. No. 3.5e+02;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCGGTAATA 21
 |||||
 433 GTGCCAGCAGCGGTAATA 453

RESULT 9
 AY193103
 LOCUS 525 bp DNA linear BCT 19-FRB-2003
 DEFINITION Uncultured bacterium clone DA43 16S ribosomal RNA gene, partial
 sequence.

ACCESSION AY193103
 VERSION AY193103.1 GI:28435861

SOURCE

ORGANISM uncultured bacterium
 uncultured bacterium
 Bacteria; environmental samples.

REFERENCE

1 (bases 1 to 525)
 HARRIS,J.Kirk., Kelley,S.T. and Pace,N.R.
 New perspective on uncultured bacterial phylogenetic division Op11

REFERENCE

2 (bases 1 to 525)
 HARRIS,J.Kirk., Kelley,S.T. and Pace,N.R.
 Direct Submission
 Submitted (10-DEC-2002) Molecular, Cellular and Developmental
 Biology, University of Colorado, Campus box 347, Boulder, CO 80309,
 USA

FEATURES
 source
 Location/Qualifiers
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 /organism="uncultured bacterium"
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 /clone="DA43"
 /environmental_sample
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 /product="16S ribosomal RNA"

ORIGIN

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 Best Local Similarity 100.0%; Pred. No. 3.5e+02;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCGGTAATA 21
 |||||
 431 GTGCCAGCAGCGGTAATA 451

RESULT 10

AY293558

LOCUS 529 bp DNA linear INV 05-JUN-2003
 DEFINITION Uncultured phototrophic eukaryote clone FL14G11 16S ribosomal RNA
 gene, partial sequence; chloroplast gene for chloroplast product.

ACCESSION AY293558
 VERSION AY293558.1 GI:31416275

KEYWORDS

ORGANISM chloroplast uncultured phototrophic eukaryote
 uncultured phototrophic eukaryote
 Eukaryota; environmental samples.

REFERENCE 1 (bases 1 to 529)
 Bonheyo,G.T., Fouke,B.W., Martin,H.G., Veysey,J., Goldenfeld,N. and
 Frias-Lopez,J.

Partitioning of Mineralogical, Geochemical, and Microbial Systems
 in Traversing Terraces at Yellowstone Hot Springs
 unpublished

REFERENCE

2 (bases 1 to 529)
 Bonheyo,G.T., Fouke,B.W., Martin,H.G., Veysey,J., Goldenfeld,N. and
 Frias-Lopez,J.
 Direct Submission
 Submitted (08-MAY-2003) Geology, University of Illinois, 245
 Natural History Building, 1301 West Green St, Urbana, IL 61801, USA

LOCATION/Qualifiers
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 /organelle="plastid:chloroplast"
 /mol_type="genomic DNA"
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 Springs"
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 /clone="FL14G11"
 /environmental_sample
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ORIGIN

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 Best Local Similarity 100.0%; Pred. No. 3.5e+02;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCGGTAATA 21
 |||||
 468 GTGCCAGCAGCGGTAATA 488

RESULT 11

AF442312

LOCUS 534 bp DNA linear PLN 11-JUN-2003
 DEFINITION Tetraapispora tricornis small subunit ribosomal RNA gene,
 partial sequence; mitochondrial gene for mitochondrial product.
 ACCESSION AF442312


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VERSION      AF442312.1  GI:31581326
KEYWORDS     mitochondrial Tetraapispora iriomotensis
SOURCE       Tetraapispora iriomotensis
ORGANISM     Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
              Saccharomycetales; Saccharomycetaceae; Tetraapispora.
REFERENCE    1 (bases 1 to 534)
AUTHORS      Kurtzman,C.P. and Robnett,C.J.
TITLE        Phylogenetic relationships among yeasts of the 'Saccharomyces
              complex' determined from multigene sequence analyses
JOURNAL      FEMS Yeast Res. 3 (4), 417-432 (2003)
MEDLINE      22633405
PUBMED       12748053
REFERENCE    2 (bases 1 to 534)
AUTHORS      Kurtzman,C.P. and Robnett,C.J.
TITLE        Direct Submission
JOURNAL      Submitted (02-NOV-2001) United States Department of Agriculture,
              National Center for Agricultural Utilization Research, 1815 N.
              University St., Peoria, IL 61604, USA
              Location/Qualifiers
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               /clone="A315"
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               /product="small subunit ribosomal RNA"

ORIGIN
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Best Local Similarity 100.0%; Pred. No. 3.5e+02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY
1 GTGCCAGCAGCAGCGGTATA 21
154 GTGCCAGCAGCAGCGGTATA 174

RESULT 12
AF128705      550 bp      DNA      linear      BCT 10-MAY-1999
LOCUS         Uncultured soil bacterium S0212 16S ribosomal RNA, partial
DEFINITION    sequence.
ACCESSION     AF128705
VERSION       AF128705.1  GI:4761919
KEYWORDS      uncultured soil bacterium S0212
SOURCE        uncultured soil bacterium S0212
ORGANISM      Bacteria; environmental samples.
REFERENCE     1 (bases 1 to 550)
AUTHORS       Dunbar,J., Takala,S., Barns,S.M., Davis,J.A. and Kuske,C.R.
TITLE        Levels of bacterial community diversity in four arid soils compared
              by cultivation and 16S rRNA gene cloning
JOURNAL      Appl. Environ. Microbiol. 65 (4), 1662-1669 (1999)
MEDLINE       98263125
PUBMED        10103265
REFERENCE     2 (bases 1 to 550)
AUTHORS       Dunbar,J., Takala,S., Barns,S.M., Davis,J.A. and Kuske,C.R.
TITLE        Direct Submission
JOURNAL      Submitted (15-FEB-1999) Environmental Molecular Biology, Life
              Sciences Division, Los Alamos National Laboratory, M880, Los
              Alamos, NM 87545, USA
              Location/Qualifiers
FEATURES     source
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               /organism="uncultured soil bacterium S0212"
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               /db_xref="taxon:92327"
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ORIGIN

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Query Match      100.0%; Score 21; DB 1; Length 550;
Best Local Similarity 100.0%; Pred. No. 3.4e+02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY
1 GTGCCAGCAGCAGCGGTATA 21
297 GTGCCAGCAGCAGCGGTATA 317

RESULT 13
AF442310      552 bp      DNA      linear      PLN 11-JUN-2003
LOCUS         Tetraapispora nanseniensis small subunit ribosomal RNA gene,
DEFINITION    partial sequence; mitochondrial gene for mitochondrial product.
ACCESSION     AF442310
VERSION       AF442310.1  GI:31581324
KEYWORDS     mitochondrial Tetraapispora nanseniensis
SOURCE        Tetraapispora nanseniensis
ORGANISM     Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
              Saccharomycetales; Saccharomycetaceae; Tetraapispora.
REFERENCE     1 (bases 1 to 552)
AUTHORS      Kurtzman,C.P. and Robnett,C.J.
TITLE        Phylogenetic relationships among yeasts of the 'Saccharomyces
              complex' determined from multigene sequence analyses
JOURNAL      FEMS Yeast Res. 3 (4), 417-432 (2003)
MEDLINE      22633405
PUBMED       12748053
REFERENCE    2 (bases 1 to 552)
AUTHORS      Kurtzman,C.P. and Robnett,C.J.
TITLE        Direct Submission
JOURNAL      Submitted (02-NOV-2001) United States Department of Agriculture,
              National Center for Agricultural Utilization Research, 1815 N.
              University St., Peoria, IL 61604, USA
              Location/Qualifiers
FEATURES     source
              1..552
               /organism="Tetraapispora nanseniensis"
               /organella="mitochondrion"
               /mol_type="genomic DNA"
               /strain="NRRL Y-27310"
               /db_xref="taxon:113607"
               /clone="A316"
               <1..>552
               /product="small subunit ribosomal RNA"

ORIGIN
Query Match      100.0%; Score 21; DB 8; Length 552;
Best Local Similarity 100.0%; Pred. No. 3.4e+02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY
1 GTGCCAGCAGCAGCGGTATA 21
177 GTGCCAGCAGCAGCGGTATA 197

RESULT 14
AY037640      559 bp      DNA      linear      BCT 05-MAR-2002
LOCUS         Uncultured soil bacterium clone S133 16S ribosomal RNA gene,
DEFINITION    partial sequence.
ACCESSION     AY037640
VERSION       AY037640.1  GI:15789072
KEYWORDS     uncultured soil bacterium
SOURCE        uncultured soil bacterium
ORGANISM      Bacteria; environmental samples.
REFERENCE     1 (bases 1 to 559)
AUTHORS       Furlong,M.A., Singleton,D.R., Coleman,D.C. and Whitman,W.B.
TITLE        Molecular and culture-based analyses of prokaryotic communities
              from an agricultural soil and the burrows and casts of the
              earthworm Lumbricus rubellus
JOURNAL      Appl. Environ. Microbiol. 68 (3), 1265-1279 (2002)

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MEDLINE 21861246
 PUBMED 11872477
 REFERENCE 2 (bases 1 to 559)
 AUTHORS Singleton,D.R., Furlong,M.A., Coleman,D.C. and Whitman,W.B.
 TITLE Direct Submission
 JOURNAL Submitted (31-MAY-2001) Department of Microbiology, University of Georgia, 541 Biological Sciences Bldg, Athens, GA 30602-2605, USA

FEATURES
 source
 1..559
 /organism="uncultured soil bacterium"
 /mol_type="genomic DNA"
 /db_xref="taxon:164851"
 /clone="S133"
 <1..>559
 /product="16S ribosomal RNA"

ORIGIN
 rRNA
 /product="16S ribosomal RNA"

Query Match 100.0%; Score 21; DB 1; Length 559;
 Best Local Similarity 100.0%; Pred. No. 3.4e+02;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCGGTAATA 21
 DB 411 GTGCCAGCAGCGGTAATA 431

RESULT 15
 AY193243 564 bp DNA linear BCF 19-FEB-2003
 LOCUS Uncultured bacterium clone Bol43 16S ribosomal RNA gene, partial
 DEFINITION sequence.
 ACCESSION AY193243
 VERSION AY193243.1 GI:28436001

KEYWORDS
 SOURCE uncultured bacterium
 ORGANISM uncultured bacterium
 Bacteria; environmental samples.

REFERENCE 1 (bases 1 to 564)
 AUTHORS Harris,J.Kirk., Kelley,S.T. and Pace,N.R.
 TITLE New perspective on uncultured bacterial phylogenetic division OP11
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 564)
 AUTHORS Harris,J.Kirk., Kelley,S.T. and Pace,N.R.
 TITLE Direct Submission
 JOURNAL Submitted (10-DEC-2002) Molecular, Cellular and Developmental Biology, University of Colorado, Campus box 347, Boulder, CO 80309, USA

FEATURES
 source
 1..564
 Location/Qualifiers

/organism="uncultured bacterium"
 /mol_type="genomic DNA"
 /isolation_source="marine sediment"
 /db_xref="taxon:77133"
 /clone="Bol43"
 /environmental_sample
 <1..>564
 /product="16S ribosomal RNA"

ORIGIN

Query Match 100.0%; Score 21; DB 1; Length 564;
 Best Local Similarity 100.0%; Pred. No. 3.4e+02;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCGGTAATA 21
 DB 444 GTGCCAGCAGCGGTAATA 464

Search completed: August 4, 2004, 07:44:21
 Job time : 921.446 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 06:01:54 ; Search time 36.1446 Seconds
(Without alignments)
307.073 Million cell updates/sec

Title: US-09-940-860-1
Perfect score: 20

Sequence: 1 gcaacacagattagatacc 20

Scoring table: OLIGO_NUC
Gapop 60.0, Gapext 60.0

Searched: 682709 segs, 277475446 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

Issued Parents NA:*
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5: /cgn2_6/prodata/2/ina/PCITUS_COMB.seq:*
6: /cgn2_6/prodata/2/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	24	3	US-09-073-465-9
2	20	100.0	195	1	US-08-227-475-7
3	20	100.0	279	4	US-09-107-532A-3170
4	20	100.0	279	4	US-09-107-532A-3171
5	20	100.0	538	3	US-08-979-586-3
6	20	100.0	538	4	US-09-577-640-3
7	20	100.0	571	3	US-09-328-111-755
8	20	100.0	619	3	US-08-953-171-2
9	20	100.0	624	3	US-09-328-111-728
10	20	100.0	660	3	US-08-114-695A-5
11	20	100.0	665	3	US-09-328-111-476
12	20	100.0	672	3	US-09-328-111-450
13	20	100.0	851	1	US-07-898-905-1
14	20	100.0	851	1	US-07-898-905-2
15	20	100.0	851	1	US-07-898-905-3
16	20	100.0	851	3	US-09-006-089-1
17	20	100.0	851	3	US-09-006-089-2
18	20	100.0	851	3	US-09-006-089-3
19	20	100.0	876	2	US-08-642-229A-4
20	20	100.0	881	5	PCT-US91-01574-13
21	20	100.0	882	2	US-07-923-871C-13
22	20	100.0	1208	3	US-09-187-946-1
23	20	100.0	1325	2	US-08-632-470-50
24	20	100.0	1336	2	US-08-437-013-3
25	20	100.0	1336	4	US-09-375-506A-3
26	20	100.0	1366	3	US-09-191-099-4
27	20	100.0	1385	4	US-09-735-567-1

28	20	100.0	1396	3	US-08-953-171-6	Sequence 6, Appl1
29	20	100.0	1400	4	US-09-375-932A-5	Sequence 5, Appl1
30	20	100.0	1405	3	US-09-191-099-5	Sequence 5, Appl1
31	20	100.0	1407	3	US-09-193-377B-2	Sequence 2, Appl1
32	20	100.0	1407	4	US-09-517-744B-1	Sequence 1, Appl1
33	20	100.0	1408	2	US-08-632-470-40	Sequence 40, Appl1
34	20	100.0	1413	3	US-09-191-099-1	Sequence 1, Appl1
35	20	100.0	1414	3	US-09-191-099-6	Sequence 6, Appl1
36	20	100.0	1415	2	US-08-632-470-52	Sequence 52, Appl1
37	20	100.0	1415	3	US-09-193-377B-9	Sequence 9, Appl1
38	20	100.0	1417	3	US-09-191-099-2	Sequence 2, Appl1
39	20	100.0	1419	4	US-09-565-063-2	Sequence 2, Appl1
40	20	100.0	1420	1	US-08-266-414-1	Sequence 1, Appl1
41	20	100.0	1420	3	US-09-193-377B-4	Sequence 4, Appl1
42	20	100.0	1426	3	US-09-193-377B-7	Sequence 7, Appl1
43	20	100.0	1427	2	US-08-632-470-27	Sequence 27, Appl1
44	20	100.0	1428	3	US-09-193-377B-1	Sequence 1, Appl1
45	20	100.0	1429	3	US-09-193-377B-8	Sequence 8, Appl1

ALIGNMENTS

RESULT 1
US-09-073-465-9
; Sequence 9, Application US/09073465
; Patent No. 6054278
; GENERAL INFORMATION:
; APPLICANT: DODGE, Deborah E
; APPLICANT: SMITH, Doug
; TITLE OF INVENTION: RIBOSOMAL RNA GENE POLYMORPHISM BASED MICROORGANISM
; FILE REFERENCE: 4343 US
; CURRENT APPLICATION NUMBER: US/09/073.465
; CURRENT FILING DATE: 1998-05-05
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Bacterial
US-09-073-465-9

Query Match 100.0%; Score 20; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGATTAGTACC 20
DB 2 GCAACAGATTAGTACC 21

RESULT 2
US-08-227-475-7/C
; Sequence 7, Application US/08227475
; Patent No. 5536674
; GENERAL INFORMATION:
; APPLICANT: Hoshina, Sadyori
; APPLICANT: Weinstein, I. Bernard
; TITLE OF INVENTION: DNA Oligomers For Use In Detection Of
; TITLE OF INVENTION: Microorganisms And Methods Of Using Such DNA
; TITLE OF INVENTION: Oligomers
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESSES:
; ADDRESS: COOPER & DUNHAM
; STREET: 30 Rockefeller Plaza
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10112
; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/227,475
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/672,691
FILING DATE: 18-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 34546-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 977-9550
TELEFAX: (212) 664-0525
TELEX: (212) 422523 COOP UI
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 195 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: N
ANTI-SENSE: N
US-08-227-475-7

Query Match 100.0%; Score 20; DB 1; Length 195;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGTATCCC 20
Db 128 GCAACAGGATTAGTATCCC 109

RESULT 3
US-09-107-532A-3170/c
Sequence 3170, Application US/09107532A
Patent No. 6583275
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 7310
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Arinello, Pamela Denek
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:

TELEPHONE: (781) 893-5007
TELEFAX: (781) 893-8277
INFORMATION FOR SEQ ID NO: 3170:
SEQUENCE CHARACTERISTICS:
LENGTH: 279 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...279
SEQUENCE DESCRIPTION: SEQ ID NO: 3170:
US-09-107-532A-3170

Query Match 100.0%; Score 20; DB 4; Length 279;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGTATCCC 20
Db 134 GCAACAGGATTAGTATCCC 115

RESULT 4
US-09-107-532A-3171/c
Sequence 3171, Application US/09107532A
Patent No. 6583275
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 7310
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Arinello, Pamela Denek
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781) 893-5007
TELEFAX: (781) 893-8277
INFORMATION FOR SEQ ID NO: 3171:
SEQUENCE CHARACTERISTICS:
LENGTH: 279 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO

ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...279
SEQUENCE DESCRIPTION: SEQ ID NO: 3171
US-09-107-532A-3171

Query Match 100.0%; Score 20; DB 4; Length 279;
Best Local Similarity 100.0%; Pred. No. 0.014;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACGAGATTGATACC 20
DB 134 GCAACGAGATTGATACC 115

RESULT 5

US-08-979-586-3
Sequence 3, Application US/08979586
Patent No. 6190903
GENERAL INFORMATION:
APPLICANT: Weinstein, I. B., et al.
TITLE OF INVENTION: BACTERIUM CAPABLE OF BIODEGRADATION OF WASTES
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/979,586
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 52208/JPW/JKM
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEFAX: 212-391-0526
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 538 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-979-586-3

Query Match 100.0%; Score 20; DB 3; Length 538;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACGAGATTGATACC 20
DB 234 GCAACGAGATTGATACC 253

RESULT 6

US-09-577-640-3
Sequence 3, Application US/09577640
Patent No. 6420165
GENERAL INFORMATION:

APPLICANT: The Trustees of Columbia University in the City of
TITLE OF INVENTION: Bacterium Capable of Biodegradation of Wastes
FILE REFERENCE: 52208apc
CURRENT APPLICATION NUMBER: US/09/577,640
CURRENT FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: 08/979,586
PRIOR FILING DATE: 1997-11-26
NUMBER OF SEQ ID NOS: 3
SOFTWARE: Patent Ver. 2.0 - beta
SEQ ID NO 3
LENGTH: 538
TYPE: DNA
ORGANISM: Bacillus midousei
US-09-577-640-3

Query Match 100.0%; Score 20; DB 4; Length 538;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACGAGATTGATACC 20
DB 234 GCAACGAGATTGATACC 253

RESULT 7

US-09-328-111-755
Sequence 755, Application US/09328111
Patent No. 6262333
GENERAL INFORMATION:
APPLICANT: Endege, Wilson O.
APPLICANT: Steinmann, Kathleen E.
APPLICANT: Aetle, Jon H.
APPLICANT: Burgess, Christopher C.
APPLICANT: Bushnell, Steven E.
APPLICANT: Carroll III, Eddie
APPLICANT: Catino, Theodore J.
APPLICANT: Derti, Adam
APPLICANT: Ford, Donna M.
APPLICANT: Lewis, Marcia E.
APPLICANT: Monahan, John E.
APPLICANT: Schlegel, Robert
TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
FILE REFERENCE: CCD-257 (US)
CURRENT APPLICATION NUMBER: US/09/328,111
CURRENT FILING DATE: 1999-06-08
EARLIER APPLICATION NUMBER: US 60/088,801
EARLIER FILING DATE: 1998-06-10
NUMBER OF SEQ ID NOS: 850
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 755
LENGTH: 571
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(571)
OTHER INFORMATION: n = A,T,C or G
US-09-328-111-755

Query Match 100.0%; Score 20; DB 3; Length 571;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACGAGATTGATACC 20
DB 235 GCAACGAGATTGATACC 314

RESULT 8

US-08-953-171-2
Sequence 2, Application US/08953171
Patent No. 6124094

```
/ GENERAL INFORMATION:
/ APPLICANT: LAJOIE, CURTIS
/ APPLICANT: LAYTON, ALICE
/ APPLICANT: KELLY, CHRISTINE
/ APPLICANT: SAYLER, GARY
/ APPLICANT: STAPLETON, RAYMOND
/ TITLE OF INVENTION: ZOOGLOEAL AND HYPHOMICROBIUM
/ TITLE OF INVENTION: SPP. NUCLEIC ACIDS
/ NUMBER OF SEQUENCES: 42
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: NEEDLE & ROSENBERG, P.C.
/ STREET: 127 Peachtree Street, N.E., Suite 1200
/ CITY: Atlanta
/ STATE: GA
/ COUNTRY: USA
/ ZIP: 30303-1811
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/953,171
/ FILING DATE: 17-OCT-1997
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER:
/ FILING DATE:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Spratt, Gwendolyn D
/ REGISTRATION NUMBER: 36,016
/ REFERENCE/DOCKET NUMBER: 05015.018
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 404 688 0770
/ TELEFAX: 404 688 9680
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 619 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/
/ US-08-953-171-2
/
Query Match          100.0%; Score 20; DB 3; Length 619;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GCAAAACGAGTTAGATACCC 20
DB      241 GCAAAACGAGTTAGATACCC 260

RESULT 9
US-09-328-111-728/c
/ Sequence 728, Application US/09328111
/ GENERAL INFORMATION:
/ APPLICANT: Endege, Wilson O.
/ APPLICANT: Steinmann, Kathleen E.
/ APPLICANT: Astle, Jon H.
/ APPLICANT: Burgess, Christopher C.
/ APPLICANT: Bushnell, Steven E.
/ APPLICANT: Carroll III, Eddie
/ APPLICANT: Carino, Theodore J.
/ APPLICANT: Dertl, Adnan
/ APPLICANT: Ford, Donna M.
/ APPLICANT: Lewis, Marcia E.
/ APPLICANT: Monahan, John E.
/ APPLICANT: Schlegel, Robert
/ TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
/ TITLE OF INVENTION: PRODUCTS
/ FILE REFERENCE: CCD-257 (US)
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/ CURRENT APPLICATION NUMBER: US/09/328,111
/ CURRENT FILING DATE: 1999-06-08
/ EARLIER APPLICATION NUMBER: US 60/088,801
/ EARLIER FILING DATE: 1998-06-10
/ NUMBER OF SEQ ID NOS: 850
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO: 728
/ LENGTH: 624
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: (1) ..(624)
/ OTHER INFORMATION: n = A,T,C or G
/
/ US-09-328-111-728
/
Query Match          100.0%; Score 20; DB 3; Length 624;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GCAAAACGAGTTAGATACCC 20
DB      383 GCAAAACGAGTTAGATACCC 364

RESULT 10
US-08-114-695A-5
/ Sequence 5, Application US/08114695A
/ Patent No. 5508193
/ GENERAL INFORMATION:
/ APPLICANT: Mandelbaum, Raphael T.
/ APPLICANT: Wackett, Lawrence P.
/ TITLE OF INVENTION: DEGRADATION OF S-TRIAZINES IN SOIL AND
/ TITLE OF INVENTION: WATER
/ NUMBER OF SEQUENCES: 8
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: SCHWEGMAN, LUNDBERG & KOESSNER, P.A.
/ STREET: 3500 IDS CENTER
/ CITY: MINNEAPOLIS
/ STATE: MN
/ COUNTRY: USA
/ ZIP: 55402
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/114,695A
/ FILING DATE: 31-AUG-1993
/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: MUETING, ANN M.
/ REGISTRATION NUMBER: 33,977
/ REFERENCE/DOCKET NUMBER: 600.268US1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 612-339-0331
/ TELEFAX: 612-339-3061
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 660 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: rRNA
/ ORIGINAL SOURCE:
/ ORGANISM: Pseudomonas citreorellolus
/
/ US-08-114-695A-5
/
Query Match          100.0%; Score 20; DB 1; Length 660;
Best Local Similarity 85.0%; Pred. No. 0.013;
Matches 17; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GCAACAGGATTAGATACCC 20
Db 50 GCAACAGGAUAGAUACCC 69

RESULT 11

US-09-328-111-476 Application US/09328111
; Sequence 476, Application US/09328111
; Patent No. 6262333
; GENERAL INFORMATION:
; APPLICANT: Endege, Wilson O.
; APPLICANT: Steinmann, Kathleen E.
; APPLICANT: Astle, Jon H.
; APPLICANT: Burgess, Christopher C.
; APPLICANT: Bushnell, Steven E.
; APPLICANT: Carroll III, Eddie
; APPLICANT: Catino, Theodore J.
; APPLICANT: Derti, Adnan
; APPLICANT: Ford, Donna M.
; APPLICANT: Lewis, Marcia E.
; APPLICANT: Monahan, John E.
; APPLICANT: Schlegel, Robert
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE OF INVENTION: PRODUCTS
; FILE REFERENCE: CCD-257 (US)
; CURRENT APPLICATION NUMBER: US/09/328,111
; CURRENT FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: US 60/088,801
; NUMBER OF SEQ ID NOS: 850
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 476
; LENGTH: 665
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(665)
; OTHER INFORMATION: n = A,T,C or G

US-09-328-111-476
Query Match 100.0%; Score 20; DB 3; Length 665;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
Db 292 GCAACAGGATTAGATACCC 311

RESULT 12

US-09-328-111-450 Application US/09328111
; Sequence 450, Application US/09328111
; Patent No. 6262333
; GENERAL INFORMATION:
; APPLICANT: Endege, Wilson O.
; APPLICANT: Steinmann, Kathleen E.
; APPLICANT: Astle, Jon H.
; APPLICANT: Burgess, Christopher C.
; APPLICANT: Bushnell, Steven E.
; APPLICANT: Carroll III, Eddie
; APPLICANT: Catino, Theodore J.
; APPLICANT: Derti, Adnan
; APPLICANT: Ford, Donna M.
; APPLICANT: Lewis, Marcia E.
; APPLICANT: Monahan, John E.
; APPLICANT: Schlegel, Robert
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
; FILE OF INVENTION: PRODUCTS
; FILE REFERENCE: CCD-257 (US)
; CURRENT APPLICATION NUMBER: US/09/328,111
; CURRENT FILING DATE: 1999-06-08
; EARLIER APPLICATION NUMBER: US 60/088,801

; EARLIER FILING DATE: 1998-06-10
; NUMBER OF SEQ ID NOS: 850
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 450
; LENGTH: 672
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-328-111-450
Query Match 100.0%; Score 20; DB 3; Length 672;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
Db 292 GCAACAGGATTAGATACCC 311

RESULT 13

US-07-898-905-1 Application US/07898905
; Sequence 1, Application US/07898905
; Patent No. 5424187
; GENERAL INFORMATION:
; APPLICANT: Shor/Kuo
; TITLE OF INVENTION: "DIAGNOSIS AND TREATMENT OF ARTERIAL
; TITLE OF INVENTION: CHLAMYDIAL GRANULOMA"
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Christensen, O'Connor, Johnson and Kindness
; STREET: 2800 Pacific First Center, 1420 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98101-2347
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette-5.25 inch, 1.2Mb storage
; COMPUTER: IBM PC/386 compatible
; OPERATING SYSTEM: MS-DOS 4.01
; SOFTWARE: Word for Windows-t
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/898,905
; FILING DATE: 19920612
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: none
; FILING DATE: none
; ATTORNEY/AGENT INFORMATION:
; NAME: Sundsmo, John S.
; REGISTRATION NUMBER: 34,446
; REFERENCE/DOCKET NUMBER: UOFW-1-6521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 1-206-682-8100; 1-206-224-0727 (direct)
; TELEFAX: 1-206-224-0779
; TELEX: 4938023
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 851 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: genomic DNA
; DESCRIPTION: Case 7
US-07-898-905-1

Query Match 100.0%; Score 20; DB 1; Length 851;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
Db 610 GCAACAGGATTAGATACCC 629

RESULT 14
US-07-898-905-2
; Sequence 2, Application US/07898905
; Patent No. 5424187
; GENERAL INFORMATION:
; APPLICANT: Shor;Kuo
; TITLE OF INVENTION: "DIAGNOSIS AND TREATMENT OF ARTERIAL
; CHLAMYDIAL GRANULOMA"
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Christensen, O'Connor, Johnson and Kindness
; STREET: 2800 Pacific First Center, 1420 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98101-2347
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette-5.25 inch, 1.2Mb storage
; COMPUTER: IBM PC/386 Compatible
; OPERATING SYSTEM: MS-DOS 4.01
; SOFTWARE: Word for Windows-t
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/898,905
; FILING DATE: 19920612
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: none
; FILING DATE: none
; ATTORNEY/AGENT INFORMATION:
; NAME: Sundsmo,John,S.
; REGISTRATION NUMBER: 34,446
; REFERENCE/DOCKET NUMBER: UOFW-1-6521
; TELEPHONE: 1-206-682-8100; 1-206-224-0727 (direct)
; TELEFAX: 1-206-224-0779
; TELEX: 4938023
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 851 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: genomic DNA
; DESCRIPTION: Cpn
US-07-898-905-2

Query Match 100.0%; Score 20; DB 1; Length 851;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GCAACAGGATTAGATACCC 20
Db 610 GCAACAGGATTAGATACCC 629

RESULT 15
US-07-898-905-3
; Sequence 3, Application US/07898905
; Patent No. 5424187
; GENERAL INFORMATION:
; APPLICANT: Shor;Kuo
; TITLE OF INVENTION: "DIAGNOSIS AND TREATMENT OF ARTERIAL
; CHLAMYDIAL GRANULOMA"
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Christensen, O'Connor, Johnson and Kindness
; STREET: 2800 Pacific First Center, 1420 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98101-2347
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette-5.25 inch, 1.2Mb storage

COMPUTER: IBM PC/386 Compatible
OPERATING SYSTEM: MS-DOS 4.01
SOFTWARE: Word for Windows-t
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/898,905
FILING DATE: 19920612
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: none
FILING DATE: none
ATTORNEY/AGENT INFORMATION:
NAME: Sundsmo,John,S.
REGISTRATION NUMBER: 34,446
REFERENCE/DOCKET NUMBER: UOFW-1-6521
TELECOMMUNICATION INFORMATION:
TELEPHONE: 1-206-682-8100; 1-206-224-0727 (direct)
TELEFAX: 1-206-224-0779
TELEX: 4938023
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 851 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: genomic DNA
DESCRIPTION: Cps
US-07-898-905-3
Query Match 100.0%; Score 20; DB 1; Length 851;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GCAACAGGATTAGATACCC 20
Db 610 GCAACAGGATTAGATACCC 629
Search completed: August 4, 2004, 09:23:22
Job time : 37.1446 secs

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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 06:01:54 ; Search time 39.759 Seconds
(without alignments)
307.073 Million cell updates/sec

Title: us-09-940-860-3

Perfect score: 22

Sequence: 1 acaagccgcgaacgatttca 22

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 682709 seqs, 277475446 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents NA:*

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- 2: /cgn2_6/prodata/2/ina/5B-COMB.seq:*
- 3: /cgn2_6/prodata/2/ina/5A-COMB.seq:*
- 4: /cgn2_6/prodata/2/ina/5B-COMB.seq:*
- 5: /cgn2_6/prodata/2/ina/PTUS-COMB.seq:*
- 6: /cgn2_6/prodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	22	100.0	368	2	US-07-923-871C-36
C 2	22	100.0	370	2	US-07-923-871C-35
C 3	22	100.0	498	2	US-07-923-871C-1
C 4	22	100.0	505	5	PCT-US91-01574-1
C 5	22	100.0	1284	3	US-09-052-333A-26
C 6	22	100.0	1284	3	US-09-052-333A-27
C 7	22	100.0	1284	3	US-09-052-333A-28
C 8	22	100.0	1284	3	US-09-052-333A-29
C 9	22	100.0	1284	3	US-09-052-333A-31
C 10	22	100.0	1408	2	US-08-632-470-40
C 11	22	100.0	1427	2	US-08-632-470-27
C 12	22	100.0	1432	2	US-08-632-470-25
C 13	22	100.0	1432	2	US-08-632-470-32
C 14	22	100.0	1436	2	US-08-632-470-34
C 15	22	100.0	1438	2	US-08-632-470-24
C 16	22	100.0	1439	2	US-08-632-470-31
C 17	22	100.0	1439	2	US-08-632-470-42
C 18	22	100.0	1440	2	US-08-632-470-23
C 19	22	100.0	1440	2	US-08-632-470-26
C 20	22	100.0	1440	2	US-08-632-470-28
C 21	22	100.0	1440	2	US-08-632-470-29
C 22	22	100.0	1440	2	US-08-632-470-33
C 23	22	100.0	1440	2	US-08-632-470-35
C 24	22	100.0	1440	2	US-08-632-470-36
C 25	22	100.0	1440	2	US-08-632-470-37
C 26	22	100.0	1440	2	US-08-632-470-39
C 27	22	100.0	1440	2	US-08-632-470-41

C 28	22	100.0	1440	2	US-08-632-470-43	Sequence 43, Appl
C 29	22	100.0	1440	2	US-08-632-470-46	Sequence 46, Appl
C 30	22	100.0	1441	2	US-08-632-470-38	Sequence 38, Appl
C 31	22	100.0	1442	2	US-08-632-470-30	Sequence 30, Appl
C 32	22	100.0	1458	2	US-08-632-470-45	Sequence 45, Appl
C 33	22	100.0	1484	2	US-08-632-470-53	Sequence 53, Appl
C 34	22	100.0	1508	2	US-08-632-470-44	Sequence 44, Appl
C 35	22	100.0	1230025	4	US-09-198-452A-1	Sequence 1, Appl
C 36	16	72.7	683	1	US-08-147-891-1	Sequence 1, Appl
C 37	16	72.7	683	1	US-08-943-464-1	Sequence 1, Appl
C 38	16	72.7	683	4	US-08-943-464-2	Sequence 2, Appl
C 39	16	72.7	683	4	US-09-491-384-1	Sequence 1, Appl
C 40	16	72.7	683	4	US-09-491-384-2	Sequence 2, Appl
C 41	16	72.7	683	4	US-09-061-770-1	Sequence 1, Appl
C 42	16	72.7	683	4	US-09-061-770-2	Sequence 2, Appl
C 43	16	72.7	938	2	US-08-879-128-1	Sequence 1, Appl
C 44	16	72.7	1435	2	US-08-632-470-48	Sequence 48, Appl
C 45	16	72.7	1494	2	US-08-632-470-49	Sequence 49, Appl

ALIGNMENTS

RESULT 1

US-07-923-871C-36/c
; Sequence 36, Application US/07923871C
; Patent No. 5912117
; GENERAL INFORMATION:
; APPLICANT: White Ph.D, Thomas J.
; APPLICANT: Dodge, Deborah E.
; TITLE OF INVENTION: Method for Diagnosis of Lyme Disease
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hoffmann-La Roche Inc.
; STREET: 340 Kingsland Street
; CITY: Nutley
; STATE: NJ
; COUNTRY: USA
; ZIP: 07110-1199
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/923,871C
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 489,676
; FILING DATE: 07-MAR-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Petry, Douglas A.
; REGISTRATION NUMBER: 35,321
; REFERENCE/DOCKET NUMBER: 8697
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 814-2974
; TELEFAX: (510) 814-2977
; TELEX:
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 368 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-07-923-871C-36

Query Match 100.0%; Score 22; DB 2; Length 368;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGCCGCGAAGCATTCA 22

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Db      273 ACAAGGCCGAGAACGTATTCA 252
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RESULT 2
US-07-923-871C-35/c
; Sequence 35, Application US/07923871C
; Patent No. 5912117
; GENERAL INFORMATION:
; APPLICANT: White Ph.D, Thomas J.
; APPLICANT: Dodge, Deborah E.
; TITLE OF INVENTION: Method for Diagnosis of Lyme Disease
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hoffmann-La Roche Inc.
; STREET: 340 Kingsland Street
; CITY: Nutley
; STATE: NJ
; COUNTRY: USA
; ZIP: 07110-1199
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/07/923,871C
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER: US 489,676
; FILING DATE: 07-MAR-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Petry, Douglas A.
; REGISTRATION NUMBER: 35,321
; REFERENCE/DOCKET NUMBER: 8697
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 814-2974
; TELEFAX: (510) 814-2977
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: unsure
; LOCATION: complement (35..36)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: complement (41)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: complement (67)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: complement (164..165)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: complement (167)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: complement (169)
; US-07-923-871C-1
Query Match 100.0%; Score 22; DB 2; Length 370;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ACAAGGCCGAGAACGTATTCA 22
|||||
Db      275 ACAAGGCCGAGAACGTATTCA 254
|||||
RESULT 3
US-07-923-871C-1/c
; Sequence 1, Application US/07923871C
; Patent No. 5912117
; GENERAL INFORMATION:
; APPLICANT: White Ph.D, Thomas J.
; APPLICANT: Dodge, Deborah E.
; TITLE OF INVENTION: Method for Diagnosis of Lyme Disease
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hoffmann-La Roche Inc.
; STREET: 340 Kingsland Street
; CITY: Nutley
; STATE: NJ
; COUNTRY: USA
; ZIP: 07110-1199
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/07/923,871C
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER: US 489,676
; FILING DATE: 07-MAR-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Petry, Douglas A.
; REGISTRATION NUMBER: 35,321
; REFERENCE/DOCKET NUMBER: 8697
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 814-2974
; TELEFAX: (510) 814-2977
; TELEX:
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 370 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-07-923-871C-35
Query Match 100.0%; Score 22; DB 2; Length 370;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ACAAGGCCGAGAACGTATTCA 22
|||||
Db      275 ACAAGGCCGAGAACGTATTCA 254
|||||
RESULT 4
PCT-US91-01574-1/c
; Sequence 1, Application PC/TUS9101574
; GENERAL INFORMATION:
; APPLICANT: White Ph.D, Thomas J.
; APPLICANT: Dodge, Deborah E.
; TITLE OF INVENTION: Method for Diagnosis of Lyme Disease
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cetus Corporation
; STREET: 1400 Fifty-third Street
; CITY: Emeryville
; STATE: CA
; COUNTRY: USA
; ZIP: 94608
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/07/923,871C
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER: US 489,676
; FILING DATE: 07-MAR-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Petry, Douglas A.
; REGISTRATION NUMBER: 35,321
; REFERENCE/DOCKET NUMBER: 8697
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 814-2974
; TELEFAX: (510) 814-2977
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: unsure
; LOCATION: complement (35..36)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: complement (41)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: complement (67)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: complement (164..165)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: complement (167)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: complement (169)
; US-07-923-871C-1
Query Match 100.0%; Score 22; DB 2; Length 498;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ACAAGGCCGAGAACGTATTCA 22
|||||
Db      396 ACAAGGCCGAGAACGTATTCA 375
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ZIP: 94608
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/01574
FILING DATE: 19910307
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 489,676
FILING DATE: 07-MAR-1990
ATTORNEY/AGENT INFORMATION:
NAME: Kaster, Kevin R.
REGISTRATION NUMBER: 32,704
REFERENCE/DOCKET NUMBER: 2536.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 420-3444
TELEFAX: (415) 658-5239
TELEX: 4992659
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 505 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: unsure
LOCATION: complement (35...36)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (41)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (67)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (164...165)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (167)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (169)
PCT-US91-01574-1

Query Match 100.0%; Score 22; DB 5; Length 505;
Best Local Similarity 100.0%; Pred. No. 4e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGACGTATTCA 22
Db 396 ACAAGGCCCGAGACGTATTCA 375

RESULT 5
US-09-052-333A-26/c
Sequence 26, Application US/09052333A
Patent No. 6261769
GENERAL INFORMATION:
APPLICANT: Everett, Karin D.E.
APPLICANT: Andersen, Arthur A.
TITLE OF INVENTION: Intergenic Spacer Target Sequence for
Patent No. 6261769
TITLE OF INVENTION: Detecting and Distinguishing Chlamydial Strains
NUMBER OF SEQUENCES: 73
CORRESPONDENCE ADDRESS:
ADDRESSEE: Curtis P. Ribando
STREET: 1815 N. University Street

CITY: Peoria
STATE: IL
COUNTRY: US
ZIP: 61604
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/052.333A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Ribando, Curtis P.
REGISTRATION NUMBER: 27,976
REFERENCE/DOCKET NUMBER: 0211.97
TELECOMMUNICATION INFORMATION:
TELEPHONE: 309/681-6513
TELEFAX: 309/681-6688
INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
LENGTH: 1284 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: rRNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Chlamydia pneumoniae
STRAIN: CWL-029
FEATURE:
NAME/KEY: rRNA
LOCATION: 1..221
OTHER INFORMATION: /note= "16S rRNA"
FEATURE:
NAME/KEY: misc RNA
LOCATION: 222..444
OTHER INFORMATION: /note= "intergenic spacer"
FEATURE:
NAME/KEY: rRNA
LOCATION: 445..1063
OTHER INFORMATION: /note= "Domain I of the 23S rRNA"
FEATURE:
NAME/KEY: rRNA
LOCATION: 445..1284
OTHER INFORMATION: /note= "23S rRNA"
FEATURE:
NAME/KEY: misc RNA
LOCATION: 1..537
OTHER INFORMATION: /note= "Region A - Region of the
Intergenic Spacer"
FEATURE:
NAME/KEY: rRNA
LOCATION: 959..1086
OTHER INFORMATION: /note= "Region B - The 3' End of
Domain I in the 23S rRNA"
US-09-052-333A-26

Query Match 100.0%; Score 22; DB 3; Length 1284;
Best Local Similarity 100.0%; Pred. No. 3.9e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGACGTATTCA 22
Db 67 ACAAGGCCCGAGACGTATTCA 46

RESULT 6
US-09-052-333A-27/c
Sequence 27, Application US/09052333A
Patent No. 6261769

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; GENERAL INFORMATION:
; APPLICANT: Everett, Karin D.E.
; APPLICANT: Andersen, Arthur A.
; TITLE OF INVENTION: Intergenic Spacer Target Sequence for
; Patent No. 6261769
; TITLE OF INVENTION: Detecting and Distinguishing Chlamydial Strains
; NUMBER OF SEQUENCES: 73
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Curtis P. Ribando
; STREET: 1815 N. University Street
; CITY: Peoria
; STATE: IL
; COUNTRY: US
; ZIP: 61604
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/052,333A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Ribando, Curtis P.
; REGISTRATION NUMBER: 27,976
; REFERENCE/DOCKET NUMBER: 0211.97
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 309/681-6513
; TELEFAX: 309/681-6688
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1284 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: rRNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Chlamydia pneumoniae
; STRAIN: CWL-1011
; FEATURE:
; NAME/KEY: rRNA
; LOCATION: 1..221
; OTHER INFORMATION: /note= "16S rRNA"
; FEATURE:
; NAME/KEY: misc_RNA
; LOCATION: 222..444
; OTHER INFORMATION: /note= "intergenic spacer"
; FEATURE:
; NAME/KEY: rRNA
; LOCATION: 445..1063
; OTHER INFORMATION: /note= "Domain I of the 23S rRNA"
; FEATURE:
; NAME/KEY: rRNA
; LOCATION: 445..1284
; OTHER INFORMATION: /note= "23S rRNA"
; FEATURE:
; NAME/KEY: misc_RNA
; LOCATION: 1..537
; OTHER INFORMATION: /note= "Region A - Region of the
; OTHER INFORMATION: Intergenic Spacer"
; FEATURE:
; NAME/KEY: rRNA
; LOCATION: 959..1086
; OTHER INFORMATION: /note= "Region B - The 3' End of
; OTHER INFORMATION: Domain I in the 23S rRNA"
;
; US-09-052-333A-27
;
; Query Match 100.0%; Score 22; DB 3; Length 1284;
; Best Local Similarity 100.0%; Pred. No. 3.9e-05;
; Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ACAAGGCCCGAGACGTATTCA 22
Db 67 ACAAGGCCCGAGACGTATTCA 46

RESULT 7
; US-09-052-333A-28/c
; Sequence 28, Application US/09052333A
; Patent No. 6261769
; GENERAL INFORMATION:
; APPLICANT: Everett, Karin D.E.
; APPLICANT: Andersen, Arthur A.
; TITLE OF INVENTION: Intergenic Spacer Target Sequence for
; Patent No. 6261769
; TITLE OF INVENTION: Detecting and Distinguishing Chlamydial Strains
; NUMBER OF SEQUENCES: 73
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Curtis P. Ribando
; STREET: 1815 N. University Street
; CITY: Peoria
; STATE: IL
; COUNTRY: US
; ZIP: 61604
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/052,333A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Ribando, Curtis P.
; REGISTRATION NUMBER: 27,976
; REFERENCE/DOCKET NUMBER: 0211.97
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 309/681-6513
; TELEFAX: 309/681-6688
; INFORMATION FOR SEQ ID NO: 28:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1284 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: rRNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Chlamydia pneumoniae
; STRAIN: FWL-12
; FEATURE:
; NAME/KEY: rRNA
; LOCATION: 1..221
; OTHER INFORMATION: /note= "16S rRNA"
; FEATURE:
; NAME/KEY: misc_RNA
; LOCATION: 222..444
; OTHER INFORMATION: /note= "intergenic spacer"
; FEATURE:
; NAME/KEY: rRNA
; LOCATION: 445..1063
; OTHER INFORMATION: /note= "Domain I of the 23S rRNA"
; FEATURE:
; NAME/KEY: rRNA
; LOCATION: 445..1284
; OTHER INFORMATION: /note= "23S rRNA"
; FEATURE:
; NAME/KEY: misc_RNA
; LOCATION: 1..537
; OTHER INFORMATION: /note= "Region A - Region of the
; OTHER INFORMATION: Intergenic Spacer"

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; FEATURE:
; NAME/KEY: rRNA
; LOCATION: 959..1086
; OTHER INFORMATION: /note= "Region B - The 3' End of
; OTHER INFORMATION: Domain I in the 23S rRNA"
;
US-09-052-333A-28

Query Match      100.0%; Score 22; DB 3; Length 1284;
Best Local Similarity 100.0%; Pred. No. 3.9e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGACGTATTCA 22
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Db 67 ACAAGGCCCGAGACGTATTCA 46

RESULT 8
US-09-052-333A-29/c
; Sequence 29, Application US/09052333A
; Patent No. 6261769
; GENERAL INFORMATION:
; APPLICANT: Everett, Karin D.E.
; APPLICANT: Andersen, Arthur A.
; TITLE OF INVENTION: Intergenic Spacer Target Sequence for
; Patent No. 6261769
; TITLE OF INVENTION: Detecting and Distinguishing Chlamydial Strains
; NUMBER OF SEQUENCES: 73
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Curtis P. Ribando
; STREET: 1815 N. University Street
; CITY: Peoria
; STATE: IL
; COUNTRY: US
; ZIP: 61604
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/052,333A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Ribando, Curtis P.
; REGISTRATION NUMBER: 27,976
; REFERENCE/DOCKET NUMBER: 0211.97
; TELEPHONE: 309/681-6513
; TELEFAX: 309/681-6688
; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1284 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: rRNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Chlamydia pneumoniae
; STRAIN: FML-16
; FEATURE:
; NAME/KEY: rRNA
; LOCATION: 1..221
; OTHER INFORMATION: /note= "16S rRNA"
; FEATURE:
; NAME/KEY: misc RNA
; LOCATION: 222..444
; OTHER INFORMATION: /note= "intergenic spacer"
; FEATURE:
; NAME/KEY: rRNA
; LOCATION: 445..1063
;
;
; OTHER INFORMATION: /note= "Domain I of the 23S rRNA"
; FEATURE:
; NAME/KEY: rRNA
; LOCATION: 445..1284
; OTHER INFORMATION: /note= "23S rRNA"
;
; NAME/KEY: misc RNA
; LOCATION: 1..537
; OTHER INFORMATION: /note= "Region A - Region of the
; OTHER INFORMATION: Intergenic Spacer"
;
; NAME/KEY: rRNA
; LOCATION: 959..1086
; OTHER INFORMATION: /note= "Region B - The 3' End of
; OTHER INFORMATION: Domain I in the 23S rRNA"
;
US-09-052-333A-29

Query Match      100.0%; Score 22; DB 3; Length 1284;
Best Local Similarity 100.0%; Pred. No. 3.9e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGACGTATTCA 22
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Db 67 ACAAGGCCCGAGACGTATTCA 46

RESULT 9
US-09-052-333A-31/c
; Sequence 31, Application US/09052333A
; Patent No. 6261769
; GENERAL INFORMATION:
; APPLICANT: Everett, Karin D.E.
; APPLICANT: Andersen, Arthur A.
; TITLE OF INVENTION: Intergenic Spacer Target Sequence for
; Patent No. 6261769
; TITLE OF INVENTION: Detecting and Distinguishing Chlamydial Strains
; NUMBER OF SEQUENCES: 73
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Curtis P. Ribando
; STREET: 1815 N. University Street
; CITY: Peoria
; STATE: IL
; COUNTRY: US
; ZIP: 61604
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/052,333A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Ribando, Curtis P.
; REGISTRATION NUMBER: 27,976
; REFERENCE/DOCKET NUMBER: 0211.97
; TELEPHONE: 309/681-6513
; TELEFAX: 309/681-6688
; INFORMATION FOR SEQ ID NO: 31:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1284 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: rRNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Chlamydia pneumoniae
; STRAIN: TW-183
; FEATURE:
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NAME/KEY: rRNA
LOCATION: 1..221
OTHER INFORMATION: /note= "16S rRNA"
FEATURE:
NAME/KEY: misc RNA
LOCATION: 222..444
OTHER INFORMATION: /note= "intergenic spacer"
FEATURE:
NAME/KEY: rRNA
LOCATION: 445..1063
OTHER INFORMATION: /note= "Domain I of the 23S rRNA"
FEATURE:
NAME/KEY: rRNA
LOCATION: 445..1284
OTHER INFORMATION: /note= "23S rRNA"
FEATURE:
NAME/KEY: misc RNA
LOCATION: 1..537
OTHER INFORMATION: /note= "Region A - Region of the
OTHER INFORMATION: Intergenic Spacer"
FEATURE:
NAME/KEY: rRNA
LOCATION: 959..1086
OTHER INFORMATION: /note= "Region B - The 3' End of
OTHER INFORMATION: Domain I in the 23S rRNA"
US-09-052-333A-31

Query Match 100.0%; Score 22; DB 3; Length 1284;
Best Local Similarity 100.0%; Pred. No. 3.9e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAAGGCCGAGAACGTATTCA 22
Db 67 ACAAGGCCGAGAACGTATTCA 46

RESULT 10
US-08-632-470-40/c
Sequence 40, Application US/08632470
Patent No. 5976791
GENERAL INFORMATION:
APPLICANT: MABILAT, CLAUDE
APPLICANT: RAULT, DIDIER
TITLE OF INVENTION: NUCLEOTIDE FRAGMENTS CAPABLE OF
TITLE OF INVENTION: HYBRIDIZING SPECIFICALLY TO RICKETTSIA RDNA OR RRNA AND
TITLE OF INVENTION: THEIR USE AS PROBES OR PRIMERS
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: OLIFF & BERRIDGE
STREET: P.O. BOX 19928
CITY: ALEXANDRIA
STATE: VA
COUNTRY: USA
ZIP: 22320
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/632,470
FILING DATE: 08-JUL-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BERRIDGE, WILLIAM P
REGISTRATION NUMBER: 30,024
REFERENCE/DOCKET NUMBER: WPB 38238
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)-836-6400
TELEFAX: (703)-836-2787
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 1408 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-632-470-40

Query Match 100.0%; Score 22; DB 2; Length 1408;
Best Local Similarity 100.0%; Pred. No. 3.9e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAAGGCCGAGAACGTATTCA 22
Db 1319 ACAAGGCCGAGAACGTATTCA 1298

RESULT 11

US-08-632-470-27/c
Sequence 27, Application US/08632470
Patent No. 5976791

GENERAL INFORMATION:

APPLICANT: MABILAT, CLAUDE

APPLICANT: RAULT, DIDIER

TITLE OF INVENTION: NUCLEOTIDE FRAGMENTS CAPABLE OF

TITLE OF INVENTION: HYBRIDIZING SPECIFICALLY TO RICKETTSIA RDNA OR RRNA AND

TITLE OF INVENTION: THEIR USE AS PROBES OR PRIMERS

NUMBER OF SEQUENCES: 53

CORRESPONDENCE ADDRESS:

ADDRESSEE: OLIFF & BERRIDGE

STREET: P.O. BOX 19928

CITY: ALEXANDRIA

STATE: VA

COUNTRY: USA

ZIP: 22320

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/632,470

FILING DATE: 08-JUL-1996

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: BERRIDGE, WILLIAM P

REGISTRATION NUMBER: 30,024

REFERENCE/DOCKET NUMBER: WPB 38238

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703)-836-6400

TELEFAX: (703)-836-2787

INFORMATION FOR SEQ ID NO: 27:

SEQUENCE CHARACTERISTICS:

LENGTH: 1427 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-08-632-470-27

Query Match 100.0%; Score 22; DB 2; Length 1427;
Best Local Similarity 100.0%; Pred. No. 3.9e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAAGGCCGAGAACGTATTCA 22
Db 1322 ACAAGGCCGAGAACGTATTCA 1301

RESULT 12

US-08-632-470-25/c
Sequence 25, Application US/08632470
Patent No. 5976791

GENERAL INFORMATION:

APPLICANT: MABILAT, CLAUDE

APPLICANT: RAOULT, DIDIER
TITLE OF INVENTION: NUCLEOTIDE FRAGMENTS CAPABLE OF
HYBRIDIZING SPECIFICALLY TO RICKETTSIA RDNA OR RRNA AND
TITLE OF INVENTION: THEIR USE AS PROBES OR PRIMERS
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: OLIFF & BERRIDGE
STREET: P.O. BOX 19928
CITY: ALEXANDRIA
STATE: VA
COUNTRY: USA
ZIP: 22320
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/632,470
FILING DATE: 08-JUL-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BERRIDGE, WILLIAM P
REGISTRATION NUMBER: 30,024
REFERENCE/DOCKET NUMBER: WPB 38238
TELEPHONE: (703)-836-6400
TELEFAX: (703)-836-2787
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 1432 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-632-470-25

Query Match 100.0%; Score 22; DB 2; Length 1432;
Best Local Similarity 100.0%; Pred. No. 3.9e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAAGGCCCGAGAACGTATTCA 22
DB 1327 ACAAGGCCCGAGAACGTATTCA 1306

RESULT 13
US-08-632-470-32/c
Sequence 32, Application US/08632470
Patent No. 5976791
GENERAL INFORMATION:
APPLICANT: MABILAT, CLAUDE
ATTORNEY/AGENT INFORMATION:
NAME: BERRIDGE, WILLIAM P
REGISTRATION NUMBER: 30,024
REFERENCE/DOCKET NUMBER: WPB 38238
TELEPHONE: (703)-836-6400
TELEFAX: (703)-836-2787
INFORMATION FOR SEQ ID NO: 53
SEQUENCE CHARACTERISTICS:
LENGTH: 1432 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-632-470-25

APPLICANT: RAOULT, DIDIER
TITLE OF INVENTION: NUCLEOTIDE FRAGMENTS CAPABLE OF
HYBRIDIZING SPECIFICALLY TO RICKETTSIA RDNA OR RRNA AND
TITLE OF INVENTION: THEIR USE AS PROBES OR PRIMERS
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: OLIFF & BERRIDGE
STREET: P.O. BOX 19928
CITY: ALEXANDRIA
STATE: VA
COUNTRY: USA
ZIP: 22320
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/632,470
FILING DATE: 08-JUL-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: BERRIDGE, WILLIAM P
REGISTRATION NUMBER: 30,024
REFERENCE/DOCKET NUMBER: WPB 38238
TELEPHONE: (703)-836-6400
TELEFAX: (703)-836-2787
INFORMATION FOR SEQ ID NO: 32:
SEQUENCE CHARACTERISTICS:
LENGTH: 1432 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-632-470-32

Query Match 100.0%; Score 22; DB 2; Length 1432;
Best Local Similarity 100.0%; Pred. No. 3.9e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAAGGCCCGAGAACGTATTCA 22
DB 1327 ACAAGGCCCGAGAACGTATTCA 1306

RESULT 14
US-08-632-470-34/c
Sequence 34, Application US/08632470
Patent No. 5976791
GENERAL INFORMATION:
APPLICANT: MABILAT, CLAUDE
ATTORNEY/AGENT INFORMATION:
NAME: BERRIDGE, WILLIAM P
REGISTRATION NUMBER: 30,024
REFERENCE/DOCKET NUMBER: WPB 38238
TELEPHONE: (703)-836-6400
TELEFAX: (703)-836-2787
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 1436 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-632-470-34

Query Match 100.0%; Score 22; DB 2; Length 1436;
Best Local Similarity 100.0%; Pred. No. 3.9e-05;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAAGGCCCGAGAACGTATTCA 22

Db 1331 ACAAGGCCCGAGACGTATTCA 1310

RESULT 15
 US-08-632-470-24/c
 ; Sequence 24, Application US/08632470
 ; Patent No. 5976791
 ; GENERAL INFORMATION:
 ; APPLICANT: NABILAT, CLAUDE
 ; APPLICANT: RAOULT, DIDIER
 ; TITLE OF INVENTION: NUCLEOTIDE FRAGMENTS CAPABLE OF
 ; TITLE OF INVENTION: HYBRIDIZING SPECIFICALLY TO RICKETTSIA RDNA OR RRNA AND
 ; TITLE OF INVENTION: HYBRIDIZING SPECIFICALLY TO RICKETTSIA RDNA OR RRNA AND
 ; NUMBER OF SEQUENCES: 53
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: OLIFF & BERRIDGE
 ; STREET: P.O. BOX 19928
 ; CITY: ALEXANDRIA
 ; STATE: VA
 ; COUNTRY: USA
 ; ZIP: 22320
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/632,470
 ; FILING DATE: 08-JUL-1996
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BERRIDGE, WILLIAM P
 ; REGISTRATION NUMBER: 30,024
 ; REFERENCE/DOCKET NUMBER: WPB 38238
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (703)-836-6400
 ; TELEFAX: (703)-836-2787
 ; INFORMATION FOR SEQ ID NO: 24:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1438 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; US-08-632-470-24

Query Match 100.0%; Score 22; DB 2; Length 1438;
 Best Local Similarity 100.0%; Pred. No. 3.9e-05;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAAGGCCCGAGACGTATTCA 22
 Db 1333 ACAAGGCCCGAGACGTATTCA 1312

Search completed: August 4, 2004, 09:23:29
 Job time : 40.759 secs

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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 06:01:54 ; Search time 36.1446 Seconds
(without alignments)
307.073 Million cell updates/sec

Title: US-09-940-860-2
Perfect score: 20
Sequence: 1 ggaggaagcgaggatgacg 20

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 682709 seqs, 277475446 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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- 2: /cgn2_6/prodata/2/ina/5B_COMB.seq:*
- 3: /cgn2_6/prodata/2/ina/6A_COMB.seq:*
- 4: /cgn2_6/prodata/2/ina/6B_COMB.seq:*
- 5: /cgn2_6/prodata/2/ina/PCUS_COMB.seq:*
- 6: /cgn2_6/prodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	1548	US-09-726-774-11	Sequence 11, Appl
2	20	100.0	2751	US-09-052-333A-6	Sequence 6, Appl
3	20	100.0	2762	US-09-052-333A-37	Sequence 37, Appl
4	20	100.0	1230025	US-09-198-452A-1	Sequence 1, Appl
5	16	80.0	420	US-09-252-991A-11029	Sequence 11029, A
6	16	80.0	1107	US-09-252-991A-13336	Sequence 13336, A
7	16	80.0	1179	US-09-252-991A-13193	Sequence 13193, A
8	16	80.0	1308	US-09-252-991A-12614	Sequence 12614, A
9	16	80.0	1683	US-09-252-991A-11226	Sequence 11226, A
10	16	80.0	1974	US-09-252-991A-11111	Sequence 11111, A
11	16	80.0	2283	US-09-252-991A-10956	Sequence 10956, A
12	15	75.0	191	US-09-621-976-8573	Sequence 8573, Ap
13	15	75.0	752	US-08-818-1112-2	Sequence 2, Appl
14	15	75.0	752	US-08-818-111-2	Sequence 2, Appl
15	15	75.0	752	US-09-056-556-2	Sequence 2, Appl
16	15	75.0	752	US-09-072-596-2	Sequence 2, Appl
17	15	75.0	752	US-09-072-967-2	Sequence 2, Appl
18	15	75.0	889	US-09-050-739-5	Sequence 5, Appl
19	15	75.0	1245	US-09-252-991A-6286	Sequence 6286, Ap
20	15	75.0	1980	US-09-252-991A-6369	Sequence 6369, Ap
21	15	75.0	2499	US-09-252-991A-6182	Sequence 6182, Ap
22	15	75.0	4403765	US-09-103-840A-2	Sequence 2, Appl
23	15	75.0	4411529	US-09-103-840A-1	Sequence 1, Appl
24	14	70.0	396	US-09-252-991A-6707	Sequence 6707, Ap
25	14	70.0	541	US-09-743-207-13	Sequence 13, Appl
26	14	70.0	738	US-09-252-991A-2237	Sequence 2237, Ap
27	14	70.0	885	US-09-252-991A-10382	Sequence 10382, A

C 28 14 70.0 1206 4 US-09-489-039A-4798 Sequence 4798, Ap
C 29 14 70.0 1260 4 US-09-252-991A-6674 Sequence 6674, Ap
C 30 14 70.0 1717 4 US-09-673-395A-11 Sequence 11, Appl
C 31 14 70.0 1734 4 US-09-252-991A-2607 Sequence 2607, Ap
C 32 14 70.0 2016 4 US-09-252-991A-2445 Sequence 2445, Ap
C 33 14 70.0 2141 4 US-09-620-312D-635 Sequence 635, App
C 34 14 70.0 2163 4 US-09-252-991A-6641 Sequence 6641, Ap
C 35 14 70.0 2169 4 US-09-252-991A-10268 Sequence 10268, A
C 36 14 70.0 2637 4 US-09-735-934A-1 Sequence 1, Appl
C 37 14 70.0 2637 4 US-10-060-332-1 Sequence 3, Appl
C 38 14 70.0 3437 3 US-08-450-962-3 Sequence 3, Appl
C 39 14 70.0 3437 4 US-08-848-631-3 Sequence 1, Appl
C 40 14 70.0 8906 2 US-08-836-267-1 Sequence 3, Appl
C 41 14 70.0 17138 3 US-09-813-819-3 Sequence 3, Appl
C 42 14 70.0 17138 4 US-09-920-048-3 Sequence 3, Appl
C 43 14 70.0 43950 4 US-09-735-934A-3 Sequence 3, Appl
C 44 14 70.0 43950 4 US-10-060-332-3 Sequence 3, Appl
C 45 13 65.0 20 4 US-09-302-681-91 Sequence 91, Appl

ALIGNMENTS

RESULT 1
US-09-726-774-11
; Sequence 11, Application US/09726774
; Patent No. 6677153
; GENERAL INFORMATION:
; APPLICANT: Iversen, Patrick L.
; TITLE OF INVENTION: Antisense Antibacterial Method and
; FILE REFERENCE: 0450-0032.30
; CURRENT APPLICATION NUMBER: US/09726,774
; CURRENT FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: US 60/168,150
; PRIOR FILING DATE: 1999-11-29
; NUMBER OF SEQ ID NOS: 139
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1548
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
US-09-726-774-11

Query Match 100.0%; Score 20; DB 4; Length 1548;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CGAGGAGCGCGAGGATGACG 20
Db 1179 CGAGGAGCGCGAGGATGACG 1198

RESULT 2
US-09-052-333A-6
; Sequence 6, Application US/09052333A
; Patent No. 6261769
; GENERAL INFORMATION:
; APPLICANT: Everett, Karin D.F.
; APPLICANT: Andersen, Arthur A.
; TITLE OF INVENTION: Intergenic Spacer Target Sequence for
; Patent No. 6261769
; TITLE OF INVENTION: Detecting and Distinguishing Chlamydial Strains
; NUMBER OF SEQUENCES: 73
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Curtis P. Ribando
; STREET: 1815 N. University Street
; CITY: Peoria
; STATE: IL
; COUNTRY: US
; ZIP: 61604
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/052,333A
FILING DATE:

CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Ribando, Curtis P.
REGISTRATION NUMBER: 27,976
REFERENCE/DOCKET NUMBER: 0211.97
TELECOMMUNICATION INFORMATION:
TELEPHONE: 309/681-6513
TELEFAX: 309/681-6688
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 2751 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: rRNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Chlamydia psittaci
STRAIN: NJ1

FEATURE:
NAME/KEY: rRNA
LOCATION: 1..564
OTHER INFORMATION: /note= "16S rRNA"
FEATURE:
NAME/KEY: misc RNA
LOCATION: 565..788
OTHER INFORMATION: /note= "intergenic spacer"
FEATURE:
NAME/KEY: rRNA
LOCATION: 789..1409
OTHER INFORMATION: /note= "Domain I of the 23S rRNA"

FEATURE:
NAME/KEY: rRNA
LOCATION: 789..2751
OTHER INFORMATION: /note= "23S rRNA"
FEATURE:
NAME/KEY: misc RNA
LOCATION: 346..881
OTHER INFORMATION: /note= "Region A - Region of the
OTHER INFORMATION: Intergenic Spacer"

FEATURE:
NAME/KEY: rRNA
LOCATION: 1303..1432
OTHER INFORMATION: /note= "Region B - The 3' End of
OTHER INFORMATION: Domain I in the 23S rRNA"

US-09-052-333A-6
Query Match 100.0%; Score 20; DB 3; Length 2751;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAGGAAGCGGAGGATGACG 20
Db 193 GGAGGAAGCGGAGGATGACG 212

RESULT 3
US-09-052-333A-37
Sequence 37, Application US/09052333A
Patent No. 6261769
GENERAL INFORMATION:
APPLICANT: Everett, Karin D.E.
APPLICANT: Andersen, Arthur A.
TITLE OF INVENTION: Intergenic Spacer Target Sequence for
Patent No. 6261769
TITLE OF INVENTION: Detecting and Distinguishing Chlamydial Strains

NUMBER OF SEQUENCES: 73
CORRESPONDENCE ADDRESS:
ADDRESSEE: Curtis P. Ribando
STREET: 1815 N. University Street
CITY: Peoria
STATE: IL
COUNTRY: US
ZIP: 61604
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/052,333A
FILING DATE:

CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Ribando, Curtis P.
REGISTRATION NUMBER: 27,976
REFERENCE/DOCKET NUMBER: 0211.97
TELECOMMUNICATION INFORMATION:
TELEPHONE: 309/681-6513
TELEFAX: 309/681-6688
INFORMATION FOR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:

LENGTH: 2762 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: rRNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Chlamydia trachomatis
STRAIN: R22

FEATURE:
NAME/KEY: rRNA
LOCATION: 1..564
OTHER INFORMATION: /note= "16S rRNA"

FEATURE:
NAME/KEY: misc RNA
LOCATION: 565..802
OTHER INFORMATION: /note= "intergenic spacer"

FEATURE:
NAME/KEY: rRNA
LOCATION: 803..1424
OTHER INFORMATION: /note= "Domain I of the 23S rRNA"

FEATURE:
NAME/KEY: rRNA
LOCATION: 803..2762
OTHER INFORMATION: /note= "23S rRNA"

FEATURE:
NAME/KEY: misc RNA
LOCATION: 346..895
OTHER INFORMATION: /note= "Region A - Region of the
OTHER INFORMATION: Intergenic Spacer"

FEATURE:
NAME/KEY: rRNA
LOCATION: 1320..1447
OTHER INFORMATION: /note= "Region B - The 3' End of
OTHER INFORMATION: Domain I in the 23S rRNA"

US-09-052-333A-37
Query Match 100.0%; Score 20; DB 3; Length 2762;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAGGAAGCGGAGGATGACG 20
Db 193 GGAGGAAGCGGAGGATGACG 212

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RESULT 4
US-09-198-452A-1
; Sequence 1, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griflais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1
; LENGTH: 1230025
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(15000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (15001)..(30000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (30001)..(45000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (45001)..(60000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (60001)..(75000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (75001)..(90000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (90001)..(105000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (105001)..(120000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (120001)..(135000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (135001)..(150000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (150001)..(165000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (165001)..(180000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (180001)..(195000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
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; LOCATION: (315001)..(330000)
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; LOCATION: (330001)..(345000)
; OTHER INFORMATION: n=a or c or g or t
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; LOCATION: (345001)..(360000)
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; LOCATION: (375001)..(390000)
; OTHER INFORMATION: n=a or c or g or t
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; LOCATION: (390001)..(405000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
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; LOCATION: (420001)..(435000)
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; LOCATION: (435001)..(450000)
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; LOCATION: (450001)..(465000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (465001)..(480000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (480001)..(495000)
; OTHER INFORMATION: n=a or c or g or t
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; LOCATION: (495001)..(510000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (510001)..(525000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (525001)..(540000)
; OTHER INFORMATION: n=a or c or g or t
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; NAME/KEY: misc_feature
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; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc feature
; LOCATION: (660001)..(675000)
; OTHER INFORMATION: n=a or c or g or t
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; OTHER INFORMATION: n=a or c or g or t
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; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc feature
; LOCATION: (780001)..(795000)
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Query Match      100.0%; Score 20; DB 4; Length 12300025;
Best Local Similarity 100.0%; Pred. No. 0.014; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0;

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Qy 1 GGAGGAGCGGAGGATGACG 20
Db 1011866 GGAGGAGCGGAGGATGACG 1011885

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RESULT 5

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US-09-252-991A-11029
; Sequence 11029, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

```

```

; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 11029
; LENGTH: 420
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-11029

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Query Match      80.0%; Score 16; DB 4; Length 420;
Best Local Similarity 100.0%; Pred. No. 2.4; Mismatches 0; Indels 0; Gaps 0;
Matches 16; Conservative 0;

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Qy 3 AGGAGCGGAGGATGA 18
Db 157 AGGAGCGGAGGATGA 172

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RESULT 6

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US-09-252-991A-13336/c
; Sequence 13336, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.

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; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 13336
; LENGTH: 1107
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-13336

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Query Match      80.0%; Score 16; DB 4; Length 1107;
Best Local Similarity 100.0%; Pred. No. 2.4; Mismatches 0; Indels 0; Gaps 0;
Matches 16; Conservative 0;

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Qy 5 GAAGCGGAGGATGACG 20
Db 138 GAAGCGGAGGATGACG 123

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RESULT 7

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US-09-252-991A-13193/c
; Sequence 13193, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.

```

```

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 13193
; LENGTH: 1179

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; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

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; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-13193

Query Match 80.0%; Score 16; DB 4; Length 1179;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 GAAGGCGAGGATGACG 20
| | | | | | | | | | | | | | | | | | | | | |
Db 196 GAAGGCGAGGATGACG 181

RESULT 8

US-09-252-991A-12614
; Sequence 12614, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 12614
; LENGTH: 1308
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-12614

Query Match 80.0%; Score 16; DB 4; Length 1308;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 GAAGGCGAGGATGACG 20
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Db 1216 GAAGGCGAGGATGACG 1231

RESULT 9

US-09-252-991A-11226/c
; Sequence 11226, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 11226
; LENGTH: 1683
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-11226

Query Match 80.0%; Score 16; DB 4; Length 1683;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 AGGAAGCGGAGGATGA 18
| | | | | | | | | | | | | | | | | | | | | |
Db 1089 AGGAAGCGGAGGATGA 1074

RESULT 10

US-09-252-991A-11111/c
; Sequence 11111, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 11111
; LENGTH: 1974
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-11111

Query Match 80.0%; Score 16; DB 4; Length 1974;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 AGGAAGCGGAGGATGA 18
| | | | | | | | | | | | | | | | | | | | | |
Db 956 AGGAAGCGGAGGATGA 941

RESULT 11

US-09-252-991A-10956
; Sequence 10956, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 10956
; LENGTH: 2283
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-10956

Query Match 80.0%; Score 16; DB 4; Length 2283;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 AGGAAGCGGAGGATGA 18
| | | | | | | | | | | | | | | | | | | | | |
Db 1856 AGGAAGCGGAGGATGA 1871

RESULT 12

US-09-621-976-8573/c
; Sequence 8573, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.

FILE REFERENCE: GENSET.054PR2
CURRENT APPLICATION NUMBER: US/09/621,976
CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
SOFTWARE: Patent.pm
SEQ ID NO 8573
LENGTH: 191
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 2
OTHER INFORMATION: n=a, g, c or t
US-09-621-976-8573

Query Match 75.0%; Score 15; DB 4; Length 191;
Best Local Similarity 100.0%; Pred. No. 8.7;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAGGAAGCGGAGGA 15
Db 188 GGAGGAAGCGGAGGA 174

RESULT 13

US-08-818-112-2
Sequence 2, Application US/08818112
Patent No. 6290969

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 153

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/08/818,112
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C6
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
LENGTH: 752 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

Query Match 75.0%; Score 15; DB 3; Length 752;
Best Local Similarity 100.0%; Pred. No. 8.5;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 AAGCGGAGGATGACG 20
Db 434 AAGCGGAGGATGACG 448

RESULT 14

US-08-818-111-2
Sequence 2, Application US/08818111
Patent No. 6338852

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedvick, Thomas S.
APPLICANT: Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 148

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/08/818,111
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C6
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
LENGTH: 752 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

US-08-818-111-2

Query Match 75.0%; Score 15; DB 4; Length 752;
Best Local Similarity 100.0%; Pred. No. 8.5;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 AAGCGGAGGATGACG 20
Db 434 AAGCGGAGGATGACG 448

RESULT 15

US-09-056-556-2

Sequence 2, Application US/09056556
Patent No. 6350456

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
NUMBER OF SEQUENCES: 241

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue

TREATM

```

: CITY: Seattle
: STATE: Washington
: COUNTRY: USA
: ZIP: 98104-7092
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/056,556
: FILING DATE: 07-APR-1998
: CLASSIFICATION:
: ATTORNEY/AGENT INFORMATION:
: NAME: Naki, David J.
: REGISTRATION NUMBER: 31,392
: REFERENCE/DOCKET NUMBER: 210121.457
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (206) 622-4900
: TELEFAX: (206) 682-6031
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 752 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
:
: US-09-056-556-2

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Query Match      75.0%; Score 15; DB 4; Length 752;
Best Local Similarity 100.0%; Pred. NO. 8.5;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      6 AAGCGGAGGATGACG 20
Db      434 AAGCGGAGGATGACG 448

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Job time : 42.1446 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 07:44:29 ; Search time 190.012 Seconds
(without alignments)
541.892 Million cell updates/sec

Title: US-09-940-860-4

Perfect score: 21
Sequence: 1 GTGCCAGCAGCGCGTAATA 21

Scoring table: OLIGO_NUC
Gapop_60.0 , Gapext 60.0

Searched: 3222919 seqs, 2451570024 residues

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Total number of hits satisfying chosen parameters: 6445838

Minimum DB seq length: 0

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Post-processing: Listing first 45 summaries

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18: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	21	11 US-09-940-860-4	Sequence 4, Appli
C 2	17	81.0	1980	17 US-10-437-963-78545	Sequence 78545, A
C 3	17	81.0	3502	16 US-10-369-493-27667	Sequence 27667, A
4	16	76.2	407	10 US-09-535-459-1484	Sequence 1484, Ap
C 5	16	76.2	600	17 US-10-021-323-3179	Sequence 3179, Ap
6	16	76.2	1119	10 US-09-919-197-10	Sequence 10, Appl
C 7	16	76.2	1350	13 US-10-425-114-35039	Sequence 35039, A
C 8	16	76.2	1837	17 US-10-437-963-1280	Sequence 1280, Ap
C 9	16	76.2	1992	13 US-09-854-867-352	Sequence 352, App
C 10	16	76.2	2329	13 US-10-425-114-1420	Sequence 1420, Ap
C 11	16	76.2	3672	13 US-10-282-122A-31366	Sequence 31366, A
C 12	15	71.4	280	10 US-09-535-459-1477	Sequence 1477, Ap
C 13	15	71.4	296	10 US-09-535-459-1478	Sequence 1478, Ap
C 14	15	71.4	364	10 US-09-535-459-1475	Sequence 1475, Ap

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c 15 15 71.4 391 10 US-09-535-459-1479 Sequence 1479, Ap
16 15 71.4 483 17 US-10-437-963-41773 Sequence 41773, A
17 15 71.4 493 13 US-10-027-632-137746 Sequence 137746,
18 15 71.4 493 13 US-10-027-632-137747 Sequence 137747,
19 15 71.4 493 13 US-10-027-632-137748 Sequence 137748,
20 15 71.4 493 16 US-10-027-632-137746 Sequence 137746,
21 15 71.4 493 16 US-10-027-632-137747 Sequence 137747,
22 15 71.4 493 16 US-10-027-632-137748 Sequence 137748,
23 15 71.4 554 10 US-09-535-459-1481 Sequence 1481, Ap
c 24 15 71.4 562 13 US-10-424-599-124900 Sequence 124900,
c 25 15 71.4 590 17 US-10-021-323-3413 Sequence 3413, Ap
26 15 71.4 650 13 US-10-027-632-215667 Sequence 215667,
27 15 71.4 650 13 US-10-027-632-215668 Sequence 215668,
28 15 71.4 650 16 US-10-027-632-215667 Sequence 215667,
29 15 71.4 650 16 US-10-027-632-215668 Sequence 215668,
30 15 71.4 725 17 US-10-333-184-527 Sequence 527, App
c 31 15 71.4 817 17 US-10-437-963-70931 Sequence 70931, A
32 15 71.4 845 13 US-10-027-632-164886 Sequence 164886,
33 15 71.4 845 13 US-10-027-632-164887 Sequence 164887,
34 15 71.4 845 13 US-10-027-632-164888 Sequence 164888,
35 15 71.4 845 16 US-10-027-632-164886 Sequence 164886,
36 15 71.4 845 16 US-10-027-632-164887 Sequence 164887,
37 15 71.4 845 16 US-10-027-632-164888 Sequence 164888,
c 38 15 71.4 908 12 US-10-152-319A-2049 Sequence 2049, Ap
c 39 15 71.4 945 13 US-10-425-114-12225 Sequence 12225, A
40 15 71.4 965 13 US-10-425-114-16650 Sequence 16650, A
c 41 15 71.4 1167 13 US-10-389-647-211 Sequence 211, App
c 42 15 71.4 1173 13 US-10-282-122A-33705 Sequence 33705, A
c 43 15 71.4 1197 16 US-10-369-493-34553 Sequence 34553, A
c 44 15 71.4 1251 13 US-10-425-114-17503 Sequence 17503, A
c 45 15 71.4 1575 16 US-10-408-167A-1 Sequence 1, Appli

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ALIGNMENTS

```

RESULT 1
US-09-940-860-4
; Sequence 4, Application US/09940860
; Publication No. US2004000555A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, Richard
; TITLE OF INVENTION: MOLECULAR DIAGNOSIS OF BACTEREMIA
; FILE REFERENCE: 01107.00185
; CURRENT APPLICATION NUMBER: US/09/940,860
; CURRENT FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/229,376
; PRIOR FILING DATE: 2000-08-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic amplification primer
US-09-940-860-4

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Query Match 100.0%; Score 21; DB 11; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCCAGCAGCGCGTAATA 21
Db 1 GTGCCAGCAGCGCGTAATA 21

```

```

RESULT 2
US-10-437-963-78545/c
; Sequence 78545, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:

```

; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 78545
; LENGTH: 1980
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Clone ID: PAT_MRT4530_78341C.1
US-10-437-963-78545

Query Match 81.0%; Score 17; DB 17; Length 1980;
Best Local Similarity 100.0%; Pred. No. 3.5;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CAGCAGCAGCGGTAATA 21
|||||
DB 1018 CAGCAGCAGCGGTAATA 1002

RESULT 3

US-10-369-493-27667/c
; Sequence 27667, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 27667
; LENGTH: 3502
; TYPE: DNA
; ORGANISM: Neurospora crassa
US-10-369-493-27667

Query Match 81.0%; Score 17; DB 16; Length 3502;
Best Local Similarity 100.0%; Pred. No. 3.5;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TGCAGCAGCAGCGGTA 18
|||||
DB 3389 TGCAGCAGCAGCGGTA 3373

RESULT 4

US-09-535-459-1484
; Sequence 1484, Application US/09535459
; Publication No. US20030040615A1
; GENERAL INFORMATION:
; APPLICANT: Seilhamer, Jeffrey J.
; APPLICANT: Deleage, Angelo M.
; APPLICANT: Stuart, Susan G.
; APPLICANT: Stuve, Laura L.

; APPLICANT: Mullahy, Sara J.
; APPLICANT: Naughton, Rebecca E.
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULE
; FILE REFERENCE: PD-1014 CIP
; CURRENT APPLICATION NUMBER: US/09/535,459
; CURRENT FILING DATE: 2000-03-24
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2170
; SOFTWARE: PERL Program
; SEQ ID NO 1484
; LENGTH: 407
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01212406
US-09-535-459-1484

Query Match 76.2%; Score 16; DB 10; Length 407;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TGCCAGCAGCAGCGGT 17
|||||
DB 35 TGCCAGCAGCAGCGGT 50

RESULT 5

US-10-021-323-3179/c
; Sequence 3179, Application US/10021323
; Publication No. US20040123340A1
; GENERAL INFORMATION:
; APPLICANT: Deikman, Jill
; APPLICANT: Feng, Paul C.C.
; APPLICANT: Fincher, Karen L.
; APPLICANT: Ziegler, Todd E.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(52274)B
; CURRENT APPLICATION NUMBER: US/10/021,323
; CURRENT FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 60/255,619
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 17880
; SEQ ID NO 3179
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Gossypium hirsutum
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3825-023-Q6-K6-G3
US-10-021-323-3179

Query Match 76.2%; Score 16; DB 17; Length 600;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GCCAGCAGCAGCGGTA 18
|||||
DB 52 GCCAGCAGCAGCGGTA 37

RESULT 6

US-09-919-197-10
; Sequence 10, Application US/09919197
; Publication No. US20030083484A1
; GENERAL INFORMATION:
; APPLICANT: Rosaune M. Crooke
; APPLICANT: Mark J. Graham
; TITLE OF INVENTION: ANTISENSE MODULATION OF SHORT HETERODIMER PARTNER-1 EXPRESSION
; FILE REFERENCE: ISPH-0593
; CURRENT APPLICATION NUMBER: US/09/919,197
; CURRENT FILING DATE: 2001-07-31
; NUMBER OF SEQ ID NOS: 89

SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (33)...(815)
US-09-919-197-10

Query Match 76.2%; Score 16; DB 10; Length 1119;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGG 16
|||||
Db 161 GTGCCAGCAGCAGCGG 176
|||||

RESULT 7

US-10-425-114-35039/c
; Sequence 35039, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingsong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 35039
; LENGTH: 1350
; TYPE: DNA
; ORGANISM: Zea mays subsp. mexicana
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-2MFLTEOSINTE032D03_FLI
US-10-425-114-35039

Query Match 76.2%; Score 16; DB 13; Length 1350;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GCCAGCAGCAGCGGTA 18
|||||
Db 170 GCCAGCAGCAGCGGTA 155
|||||

RESULT 8

US-10-437-963-1280/c
; Sequence 1280, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barzakur, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 1280

; LENGTH: 1837
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(1837)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_101161C.1
US-10-437-963-1280

Query Match 76.2%; Score 16; DB 17; Length 1837;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGG 16
|||||
Db 1403 GTGCCAGCAGCAGCGG 1388
|||||

RESULT 9

US-09-854-867-352/c
; Sequence 352, Application US/09854867
; Publication No. US20030224356A1
; GENERAL INFORMATION:
; APPLICANT: JOAN, KNOLL H
; APPLICANT: ROGAN, PETER K
; TITLE OF INVENTION: SINGLE COPY GENOMIC HYBRIDIZATION PROBES AND METHOD OF GENERATING
; FILE REFERENCE: 30307
; CURRENT APPLICATION NUMBER: US/09/854,867
; CURRENT FILING DATE: 2003-05-08
; NUMBER OF SEQ ID NOS: 613
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 352
; LENGTH: 1992
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: repeat region
; LOCATION: (1)..(1992)
; OTHER INFORMATION: lipa15_5
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (760)..(760)
; OTHER INFORMATION: n is a, c, g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1149)..(1149)
; OTHER INFORMATION: n is a, c, g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1261)..(1261)
; OTHER INFORMATION: n is a, c, g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1418)..(1418)
; OTHER INFORMATION: n is a, c, g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1533)..(1533)
; OTHER INFORMATION: n is a, c, g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1558)..(1558)
; OTHER INFORMATION: n is a, c, g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1802)..(1802)
; OTHER INFORMATION: n is a, c, g or t
US-09-854-867-352

Query Match 76.2%; Score 16; DB 13; Length 1992;
Best Local Similarity 100.0%; Pred. No. 13;

; APPLICANT: Naughton, Rebecca E.
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULE
; FILE REFERENCE: PD-1014 CIP
; CURRENT APPLICATION NUMBER: US/09/535,459
; CURRENT FILING DATE: 2000-03-24
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2170
; SOFTWARE: PERL Program
; SEQ ID NO 1478
; LENGTH: 296
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01006476
US-09-535-459-1478

Query Match 71.4%; Score 15; DB 10; Length 296;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GCCAGCAGCAGCGGT 17
|||
Db 125 GCCAGCAGCAGCGGT 111

RESULT 14

US-09-535-459-1475/c
; Sequence 1475, Application US/09535459
; Publication No. US20030040615A1
; GENERAL INFORMATION:
; APPLICANT: Seilhamer, Jeffrey J.
; APPLICANT: Delegeane, Angelo M.
; APPLICANT: Stuart, Susan G.
; APPLICANT: Stuve, Laura L.
; APPLICANT: Mullahy, Sara J.
; APPLICANT: Naughton, Rebecca E.
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULE
; FILE REFERENCE: PD-1014 CIP
; CURRENT APPLICATION NUMBER: US/09/535,459
; CURRENT FILING DATE: 2000-03-24
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2170
; SOFTWARE: PERL Program
; SEQ ID NO 1475
; LENGTH: 364
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01109550
US-09-535-459-1475

Query Match 71.4%; Score 15; DB 10; Length 364;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GCCAGCAGCAGCGGT 17
|||
Db 159 GCCAGCAGCAGCGGT 145

RESULT 15

US-09-535-459-1479/c
; Sequence 1479, Application US/09535459
; Publication No. US20030040615A1
; GENERAL INFORMATION:
; APPLICANT: Seilhamer, Jeffrey J.
; APPLICANT: Delegeane, Angelo M.
; APPLICANT: Stuart, Susan G.
; APPLICANT: Stuve, Laura L.
; APPLICANT: Mullahy, Sara J.
; APPLICANT: Naughton, Rebecca E.

; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR REGULATING ELECTRON TRANSFER MOLECULE
; FILE REFERENCE: PD-1014 CIP
; CURRENT APPLICATION NUMBER: US/09/535,459
; CURRENT FILING DATE: 2000-03-24
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2170
; SOFTWARE: PERL Program
; SEQ ID NO 1479
; LENGTH: 391
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030040615A1 hu01224429
US-09-535-459-1479

Query Match 71.4%; Score 15; DB 10; Length 391;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GCCAGCAGCAGCGGT 17
|||
Db 161 GCCAGCAGCAGCGGT 147

Search completed: August 4, 2004, 11:56:27
Job time : 191.012 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 04:00:30 ; Search time 172.554 Seconds
(without alignments)
517.009 Million cell updates/sec

Title: US-09-940-860-4
Perfect score: 21
Sequence: 1 gtgccagcagcagcggttaata 21

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 3373863 seqs, 2124099041 residues

Word size : 0
Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : N_Geneseq_29Jan04:*
1: Geneseq1980s:*
2: Geneseq1990s:*
3: Geneseq2000s:*
4: Geneseq2001as:*
5: Geneseq2001bs:*
6: Geneseq2002s:*
7: Geneseq2003as:*
8: Geneseq2003bs:*
9: Geneseq2003cs:*
10: Geneseq2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	5849	AAV33135	Plasmodium
2	17	81.0	1458	ABZ38180	N. gonorr
3	17	81.0	1542	AAZ12223	Neisseria
4	17	81.0	3593	ABL09563	Drosophila
5	17	81.0	6161	ABL09562	Drosophila
6	16	76.2	684	ADA31033	DNA encod
7	16	76.2	804	ADBE3858	Rat gene
8	16	76.2	804	ADD48493	Rat gene
9	16	76.2	1119	ABT34135	Short het
10	16	76.2	2854	ABL11243	Drosophila
11	16	76.2	3672	ACA43496	Prokaryot
12	16	76.2	5471	ABU11242	Drosophila
13	15	71.4	32	AAE60723	Murine DL
14	15	71.4	130	AAE61717	Clone VGT
15	15	71.4	197	ADD17780	DNA (Seq)
16	15	71.4	336	ABL28181	Drosophila
17	15	71.4	571	ABZ73270	Rice leaf
18	15	71.4	640	ADD16180	CDNA (Seq)
19	15	71.4	716	ADD17056	DNA (Seq)
20	15	71.4	725	ABK31113	Plant dna
21	15	71.4	908	ABT42347	Toxicity
22	15	71.4	1167	AAE81355	Quorum se
23	15	71.4	1167	ABL29451	Drosophila

ALIGNMENTS

RESULT 1

AAV33135	AAV33135 standard; DNA; 5849 BP.				
ID	AAV33135	standard; DNA; 5849 BP.			
AC	AAV33135;				
XX					
DT	17-OCT-2003 (revised)				
DT	07-DEC-1998 (first entry)				
XX					
DE	Plasmodium berghei plastid PSI-PL470 gene.				
XX					
KW	Malaria; infection; therapy; diagnosis; vaccine; plastid; PSI-PL470 gene;				
XX	ds.				
OS	Plasmodium berghei; ANKA strain.				
XX					
PN	W09835057-A1.				
XX					
PD	13-AUG-1998.				
XX					
PF	05-FEB-1998; 98WO-IB000212.				
XX					
PR	06-FEB-1997; 97AU-00004953.				
PR	21-APR-1997; 97AU-00006329.				
XX	26-SEP-1997; 97AU-00009481.				
PA	(UYSI-) UNIV SINGAPORE NAT.				
PA	(MOLE-) INST MOLECULAR & CELL BIOLOGY.				
XX					
PI	Kara AKU, Ting RCY, Tham JM, Nelson JS, Tan TMC;				
XX					
DR	WPI; 1998-447251/38.				
XX					
PT	Detecting Plasmodium infection from hybridisation with extrachromosomal				
PT	element - providing genus or species specific diagnosis with few false				
XX	negatives, in humans or animals.				
XX					
PS	Claim 15; Page 54-59; 120pp; English.				
XX					
CC	This is the nucleotide sequence of one strand of the PSI-PL470 gene of				
CC	the 30.7 kb extrachromosomal plastid of Plasmodium berghei. This plastid				
CC	encodes organelle-like RNAs, rRNAs, ribosomal proteins and RNA				
CC	polymerase subunits, amongst others. Plasmodium is detected in a human or				
CC	animal sample by treating it, or derived nucleic acid, with a Plasmodium				
CC	extrachromosomal genetic element or derived nucleic acid (A) and				
CC	detecting any hybridisation. (A) can include the PSI-PL470, PLH-PPH, PRB				

ACA45835 Prokaryot
AAV02903 Human DNA
AAa98876 Human pro
Aa98158 Human pro
Aa29587 Human pro
AB117869 Drosophila
ABQ77568 Human ATP
Aa22772 Human SOC
Aa22778 Human SOC
Aa29137 Homo sapi
ACC44418 Gene enco
ACA47979 Prokaryot
Aa220095 Cytochrome
Aa117305 Human CDN
Aa298625 Silkworm
Aa220096 Cytochrome
AB107099 Drosophila
AB128180 Drosophila
ABT06279 Human NOV
ABT06280 Human NOV
Add78281 Human CGD

C 24 15 71.4 1173 7 ACA45835
C 25 15 71.4 1575 2 AAV02903
C 26 15 71.4 1636 3 AAA98876
C 27 15 71.4 1636 3 AAA98158
C 28 15 71.4 1636 6 AAD29987
C 29 15 71.4 1654 4 ABL117869
C 30 15 71.4 1679 6 ABQ77568
C 31 15 71.4 1748 2 AAX22772
C 32 15 71.4 1748 2 AAX22778
C 33 15 71.4 1915 2 AAV29137
C 34 15 71.4 2039 7 ACC44418
C 35 15 71.4 2178 7 ACA47979
C 36 15 71.4 2185 2 AAZ20095
C 37 15 71.4 2196 4 AAH17305
C 38 15 71.4 2354 9 ADB63487
C 39 15 71.4 2525 3 AAZ98625
C 40 15 71.4 2558 2 AAZ20096
C 41 15 71.4 2646 4 ABL07099
C 42 15 71.4 2672 4 ABL28180
C 43 15 71.4 2860 6 ABT06279
C 44 15 71.4 2860 6 ABT06280
C 45 15 71.4 2924 9 ADD78281

CC or PWQ gene, the mitochondrial coxi gene, and nucleic acids derived from
 CC them. Also new are (A)-specific probes and primers (see AAV3139-56). The
 CC method is used to diagnose Plasmodium infection. Also (not claimed) the
 CC polypeptides encoded by (A) are useful as targets for drug development
 CC and for development of anti-malaria vaccines. The high degree of
 CC similarity between (A) from different species allows development of genus
 CC - or species-specific assays that result in fewer false negatives than
 CC known methods (typically 1% against 3%). (Updated on 17-OCT-2003 to
 CC standardise OS field)

XX Sequence 5849 BP; 2296 A; 673 C; 557 G; 2323 T; 0 U; 0 Other;

Query Match 100.0%; Score 21; DB 2; Length 5849;

Best Local Similarity 100.0%; Pred. NO. 0.44;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCGGTATA 21

DB 4671 GTGCCAGCAGCGGTATA 4691

RESULT 2

ID ABZ38180/c

XX ABZ38180 standard; DNA; 1458 BP.

XX AC ABZ38180;

XX DT 07-MAR-2003 (first entry)

XX DE N. gonorrhoeae nucleotide sequence SEQ ID 949.

XX KW Antibacterial; infection; vaccine; gene therapy; gene; ds.

XX OS Neisseria gonorrhoeae.

XX PN WO200279243-A2.

XX PD 10-OCT-2002.

XX PF 12-FEB-2002; 2002WO-IB002069.

XX PR 12-FEB-2001; 2001GB-00003424.

XX PA (CHIR-) CHIRON SPA.

XX PI Fontana MR, Pizza M, Maignani V, Monaci E;

XX PR WPI; 2003-058415/05.

XX DR P-PSDB; ABP77210.

XX PT New protein from Neisseria gonorrhoeae, useful for the manufacture of a
 XX medicament for treating or preventing N. gonorrhoeae infection.

XX PS Disclosure; Page 257; 815pp; English.

XX The present invention relates to proteins from Neisseria gonorrhoeae.
 CC Also disclosed are the nucleic acid molecules encoding the proteins and
 CC antibodies that specifically bind to the proteins. The composition
 CC comprising the protein, nucleic acid or antibody is useful for the
 CC manufacture of a medicament for treating or preventing N. gonorrhoeae
 CC infection, this may be in the form of a vaccine or gene therapy.
 CC Sequences given in records ABZ37706-ABZ42016 represent nucleic acid
 CC molecules of the invention

XX Sequence 1458 BP; 167 A; 328 C; 569 G; 394 T; 0 U; 0 Other;

Query Match 81.0%; Score 17; DB 7; Length 1458;

Best Local Similarity 100.0%; Pred. NO. 37;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GCCAGCAGCAGCGGTAA 19

DB 1067 GCCAGCAGCAGCGGTAA 1051

RESULT 3

ID AAZ12223/c

XX AAZ12223 standard; DNA; 1542 BP.

XX AC AAZ12223;

XX DT 08-OCT-1999 (first entry)

XX DE Neisseria gonorrhoeae complete ORF139 sequence.

XX KW Neisseria meningitidis; Neisseria gonorrhoeae; antigen; vaccine;

XX KW treatment; Neisseria infection; meningitis; septicaemia; gonorrhea; ss.

XX OS Neisseria gonorrhoeae.

XX PN WO9924578-A2.

XX PD 20-MAY-1999.

XX PF 09-OCT-1998; 98WO-IB001665.

XX PR 06-NOV-1997; 97GB-00023516.

XX PR 14-NOV-1997; 97GB-00024190.

XX PR 18-NOV-1997; 97GB-00024386.

XX PR 27-NOV-1997; 97GB-00025158.

XX PR 10-DEC-1997; 97GB-00026147.

XX PR 14-JAN-1998; 98GB-00000759.

XX PR 01-SEP-1998; 98GB-00019016.

XX PA (CHIR-) CHIRON SPA.

XX PI Maignani V, Rappuoli R, Pizza M, Scarlato V, Grandi G;

XX DR WPI; 1999-327407/27.

XX DR N-PSDB; AAZ12223.

XX PT Proteins from Neisseria meningitidis and N. gonorrhoeae useful for

XX diagnosis, treatment and prevention of infection.

XX PS Claim 9; Page 332; 524pp; English.

XX Nucleotide sequences AAZ11972-Z12358 represent open reading frames (ORFs)
 CC of Neisseria meningitidis and N. gonorrhoeae which encode antigenic
 CC proteins (see AAV38499-Y38944). The antigenic proteins, their fragments,
 CC their nucleic acids and antibodies are used for diagnosis, prevention (as
 CC vaccines) or treatment of Neisseria infections, such as meningitis,
 CC septicaemia and gonorrhea. Both organisms are closely related. Fragments
 CC of the nucleic acids are useful as hybridisation probes and antisense
 CC reagents

XX Sequence 1542 BP; 175 A; 345 C; 599 G; 423 T; 0 U; 0 Other;

Query Match 81.0%; Score 17; DB 2; Length 1542;

Best Local Similarity 100.0%; Pred. NO. 37;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GCCAGCAGCAGCGGTAA 19

DB 1148 GCCAGCAGCAGCGGTAA 1132

RESULT 4

ID ABL09563

XX ABL09563 standard; cDNA; 3593 BP.

XX AC ABL09563;

XX DT 26-MAR-2002 (first entry)

XX DE Drosophila melanogaster expressed polynucleotide SEQ ID NO 23171.

(PEKE) PE CORP NY.

Venter JC, Adams M, Li PWD, Myers EW;
WPI: 2001-656860/75.
P-PSDB; ABB65459.

New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signaling and cell-cell interactions.

Claim 1; SEQ ID NO 23168; 21pp + Sequence Listing; English.

The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signaling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABLU16176-ABLU30511), expressed DNA sequences (ABLU1840-ABLU16175) and the encoded proteins (ABB57737-ABB72072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences)

Sequence 6161 BP; 1747 A; 1568 C; 1438 G; 1408 T; 0 U; 0 Other;

Query Match 81.0%; Score 17; DB 4; Length 6161;
Best Local Similarity 100.0%; Pred.No. 37;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TGCCAGCAGCAGCGGTA 18
|||||
Db 5035 TGCCAGCAGCAGCGGTA 5051

RESULT 6
ADA31033
ID ADA31033 standard; DNA; 684 BP.

XX ADA31033;
XX
DT 20-NOV-2003 (first entry)
XX
XX
DE DNA encoding Acinetobacter baumannii protein #2320.
XX
KW ds; gene; Acinetobacter baumannii; bacterial disease; antibacterial;
KW vaccine; plant biocontrol agent.
XX
XX Acinetobacter baumannii.
OS Acinetobacter baumannii.
XX
XX US6562959-B1.
XX
XX 13-MAY-2003.
XX
XX 04-JUN-1999; 99US-00328352.
XX
XX 09-JUN-1998; 98US-0088701P.
XX
XX (GENO-) GENOME THERAPEUTICS CORP.
XX
XX Breton G, Bush D;
PI
XX
XX WPI; 2003-576032/54.
DR P-PSDB; ADA35159.
XX
XX New Acinetobacter baumannii proteins and nucleic acids, useful as reagents for diagnosing a bacterial disease, as components of antibacterial vaccines, as targets for antibacterial drugs, or as biocontrol agents for plants.
XX
XX Example; SEQ ID NO 2320; 328pp; English.
XX
XX The invention relates to isolated Acinetobacter baumannii nucleic acids.

CC The A. baumannii nucleic acids and polypeptides are useful as reagents
 CC for diagnosing a bacterial disease, as components of antibacterial
 CC vaccines, as targets for antibacterial drugs, to detect the presence of
 CC A. baumannii and other Acinetobacter species in a sample, in screening
 CC compounds for the ability to interfere with the A. baumannii life cycle
 CC or to inhibit A. baumannii infection, and as biocontrol agents for
 CC plants. The present sequence represents DNA encoding an A. baumannii
 CC protein.
 XX
 SQ Sequence 684 BP; 203 A; 127 C; 159 G; 195 T; 0 U; 0 Other;
 Query Match 76.2%; Score 16; DB 8; Length 684;
 Best Local Similarity 100.0%; Pred. No. 1.1e+02;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 CAGCAGCAGCGGTAAT 20
 DB 170 CAGCAGCAGCGGTAAT 185
 RESULT 7
 ADEG3858/c
 ID ADE63858 standard; DNA; 804 BP.
 XX
 AC ADE63858;
 XX
 DT 29-JAN-2004 (first entry)
 DE
 DE Rat gene X62660, SEQ ID NO 9802.
 XX
 XX Rat; ds; gene; pain; neuronal tissue; gene therapy;
 KW spinal segmental nerve injury; chronic constriction injury; CCI;
 KW spared nerve injury; SNI; Chung.
 XX
 OS Rattus norvegicus.
 FN WO2003016475-A2.
 XX
 PD 27-FEB-2003.
 XX
 PF 14-AUG-2002; 2002WO-US025765.
 XX
 PR 14-AUG-2001; 2001US-0312147P.
 PR 01-NOV-2001; 2001US-0346382P.
 PR 26-NOV-2001; 2001US-0333347P.
 XX
 PA (GPHO) GEN HOSPITAL CORP.
 PA (FARB) BAYER AG.
 XX
 PI Woolf C, D'urso D, Befort K, Costigan M;
 XX WPI; 2003-268312/26.
 XX GENBANK; X62660.
 XX
 PT New composition comprising two or more isolated polypeptides, useful for
 PT preparing a medicament for treating pain in an animal.
 XX
 PS Claim 1; Page; 1017pp; English.
 XX
 XX The invention discloses a composition comprising two or more isolated rat
 CC or human polynucleotides or a polynucleotide which represents a fragment,
 CC derivative or allelic variation of the nucleic acid sequence. Also
 CC claimed are a vector comprising the novel polynucleotide, a host cell
 CC comprising the vector, a method for identifying a nucleotide sequence
 CC which is differentially regulated in an animal subjected to pain and a
 CC kit to perform the method, an array, a method for identifying an agent
 CC that increases or decreases the expression of the polynucleotide sequence
 CC that is differentially regulated in neuronal tissue of a first animal
 CC subjected to pain, a method for identifying a compound which regulates
 CC the expression of a polynucleotide sequence which is differentially
 CC expressed in an animal subjected to pain, a method for identifying a
 CC compound that regulates the activity of one or more of the
 CC polynucleotides, a method for producing a pharmaceutical composition, a

CC method for identifying a compound or small molecule that regulates the
 CC activity in an animal of one or more of the polypeptides given in the
 CC specification, a method for identifying a compound useful in treating
 CC pain and a pharmaceutical composition comprising the one or more
 CC polypeptides or their antibodies. The polynucleotide or the compound that
 CC modulates its activity is useful for preparing a medicament for treating
 CC pain (e.g. spinal segmental nerve injury (Chung), chronic constriction
 CC injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene
 CC therapy). The sequence presented is a rat DNA (shown in Table 2 of the
 CC specification) which is differentially expressed during pain. Note: the
 CC sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic form directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 804 BP; 261 A; 178 C; 198 G; 167 T; 0 U; 0 Other;
 Query Match 76.2%; Score 16; DB 9; Length 804;
 Best Local Similarity 100.0%; Pred. No. 1.1e+02;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GTGCCAGCAGCAGCGG 16
 DB 92 GTGCCAGCAGCAGCGG 77
 RESULT 8
 ADD48493/c
 ID ADD48493 standard; DNA; 804 BP.
 XX
 AC ADD48493;
 XX
 DT 29-JAN-2004 (first entry)
 DE
 DE Rat gene X62660, SEQ ID NO 14194.
 XX
 XX Rat; ds; gene; pain; neuronal tissue; gene therapy;
 KW spinal segmental nerve injury; chronic constriction injury; CCI;
 KW spared nerve injury; SNI; Chung.
 XX
 OS Rattus norvegicus.
 FN WO2003016475-A2.
 XX
 PD 27-FEB-2003.
 XX
 PF 14-AUG-2002; 2002WO-US025765.
 XX
 PR 14-AUG-2001; 2001US-0312147P.
 PR 01-NOV-2001; 2001US-0346382P.
 PR 26-NOV-2001; 2001US-0333347P.
 XX
 PA (GPHO) GEN HOSPITAL CORP.
 PA (FARB) BAYER AG.
 XX
 PI Woolf C, D'urso D, Befort K, Costigan M;
 XX WPI; 2003-268312/26.
 XX GENBANK; X62660.
 XX
 PT New composition comprising two or more isolated polypeptides, useful for
 PT preparing a medicament for treating pain in an animal.
 XX
 PS Claim 1; Page; 1017pp; English.
 XX
 XX The invention discloses a composition comprising two or more isolated rat
 CC or human polynucleotides or a polynucleotide which represents a fragment,
 CC derivative or allelic variation of the nucleic acid sequence. Also
 CC claimed are a vector comprising the novel polynucleotide, a host cell
 CC comprising the vector, a method for identifying a nucleotide sequence
 CC which is differentially regulated in an animal subjected to pain and a
 CC kit to perform the method, an array, a method for identifying an agent
 CC that increases or decreases the expression of the polynucleotide sequence
 CC that is differentially expressed in neuronal tissue of a first animal
 CC subjected to pain, a method for identifying a compound which regulates
 CC the expression of a polynucleotide sequence which is differentially
 CC expressed in an animal subjected to pain, a method for identifying a
 CC compound that regulates the activity of one or more of the
 CC polynucleotides, a method for producing a pharmaceutical composition, a

CC subjected to pain, a method for identifying a compound which regulates
 CC the expression of a polynucleotide sequence which is differentially
 CC expressed in an animal subjected to pain, a method for identifying a
 CC compound that regulates the activity of one or more of the
 CC polynucleotides, a method for producing a pharmaceutical composition, a
 CC method for identifying a compound or small molecule that regulates the
 CC activity in an animal of one or more of the polypeptides given in the
 CC specification, a method for identifying a compound useful in treating
 CC pain and a pharmaceutical composition comprising the one or more
 CC polypeptides or their antibodies. The polynucleotide or the compound that
 CC modulates its activity is useful for preparing a medicament for treating
 CC pain (e.g. spinal segmental nerve injury (SNI)), chronic constriction
 CC injury (CCI) and spared nerve injury (SNI)) in an animal (e.g. gene
 CC therapy). The sequence presented is a rat DNA (shown in Table 2 of the
 CC specification) which encodes one of the polypeptides of the invention
 CC which is differentially expressed during pain. Note: The sequence data
 CC for this patent did not form part of the printed specification, but was
 CC obtained in electronic form directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 804 BP; 261 A; 178 C; 198 G; 167 T; 0 U; 0 Other;

Query Match 76.2%; Score 16; DB 9; Length 804;
 Best Local Similarity 100.0%; Pred. No. 1.1e+02;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGG 16
 |||||
 Db 92 GTGCCAGCAGCAGCGG 77

RESULT 9
 ABT34135
 ID ABT34135 standard; DNA; 1119 BP.

XX AC ABT34135;

XX DT 12-JUN-2003 (first entry)

XX DE Short heterodimer partner-1 expression mouse DNA SEQ ID NO 10.

XX KW Antiarteriosclerotic; cardiant; vasotropic; antiinfective; cytostatic;
 XX KW antiinflammatory; inhibitor; antisense gene therapy; atherosclerosis;
 XX KW short heterodimer partner-1; abnormal; lipid; cholesterol metabolism;
 XX KW cardiovascular disease; infection; inflammation; tumour formation; mouse;
 XX KW murine; ds.

XX OS Mus musculus.

XX PN WO2003012033-A2.

XX PD 13-FEB-2003.

XX PF 17-JUL-2002; 2002WO-US023245.

XX PR 31-JUL-2001; 2001US-00919197.

XX PA (ISIS-) ISIS PHARM INC.

XX PI Crooke RM, Graham MJ;

XX DR WPI; 2003-248161/24.

XX DR P-PSDB; AAO27109.

XX PT New antisense oligonucleotide targeted to a nucleic acid encoding short
 XX PT heterodimer partner-1, useful for treating diseases involving abnormal
 XX PT lipid or cholesterol metabolism, e.g atherosclerosis or cardiovascular
 XX PT diseases.

XX PS Example 9; Page 103-105; 121pp; English.

XX CC The invention relates to a novel compound of 8 - 50 nucleobases in length
 XX CC targeted to a nucleic acid molecule encoding a short heterodimer partner-

CC 1. The novel compound specifically hybridizes with a nucleic acid
 CC molecule encoding the short heterodimer partner-1, and inhibits the
 CC expression of the nucleic acid molecule. The compound, and a composition
 CC comprising it are useful for treating a disease or condition associated
 CC with the short heterodimer partner-1, particularly a condition involving
 CC abnormal lipid or cholesterol metabolism such as atherosclerosis or a
 CC cardiovascular disease. They are also useful in research and diagnostics
 CC for modulating the expression of short heterodimer partner-1. They can
 CC also be useful prophylactically in preventing or delaying infection,
 CC inflammation or tumour formation. This polynucleotide represents a mouse
 CC DNA sequence relating to the short heterodimer partner-1 of the invention

XX SQ Sequence 1119 BP; 233 A; 354 C; 289 G; 243 T; 0 U; 0 Other;

Query Match 76.2%; Score 16; DB 7; Length 1119;

Best Local Similarity 100.0%; Pred. No. 1.1e+02;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGG 16

|||||
 Db 161 GTGCCAGCAGCAGCGG 176

RESULT 10

ABL11243

ID ABL11243 standard; cDNA; 2854 BP.

XX AC ABL11243;

XX DT 26-MAR-2002 (first entry)

XX DE Drosophila melanogaster expressed polynucleotide SEQ ID NO 28211.

XX KW Drosophila; developmental biology; cell signalling; insecticide;

XX KW pharmaceutical; gene; ss.

XX OS Drosophila melanogaster.

XX PN WO200171042-A2.

XX PD 27-SEP-2001.

XX PF 23-MAR-2001; 2001WO-US009231.

XX PR 23-MAR-2000; 2000US-0191637P.

XX PR 11-JUL-2000; 2000US-00614150.

XX PA (PEKE) PE CORP NY.

XX PI Venter JC, Adams M, Li PWD, Myers EW;

XX DR WPI; 2001-656860/75.

XX DR P-PSDB; ABB67140.

XX PT New isolated nucleic acid detection reagent for detecting 1000 or more
 XX PT genes from Drosophila and for elucidating cell signalling and cell-cell
 XX PT interactions.

XX PS Claim 1; SEQ ID NO 28211; 21pp + Sequence Listing; English.

XX CC The invention relates to an isolated nucleic acid detection reagent
 XX CC capable of detecting 1000 or more genes from Drosophila. The invention is
 XX CC useful in developmental biology and in elucidating cell signalling and
 XX CC cell-cell interactions in higher eukaryotes for the development of
 XX CC insecticides, therapeutics and pharmaceutical drugs. The invention
 XX CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
 XX CC sequences (ABL01840-ABL16175) and the encoded proteins (ABB57737-
 XX CC ABB32072). The sequence data for this patent did not form part of the
 XX CC printed specification, but was obtained in electronic format directly
 XX CC from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 2854 BP; 775 A; 789 C; 705 G; 595 T; 0 U; 0 Other;

Query Match 76.2%; Score 16; DB 4; Length 2854;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CCAGCAGCAGCGGTAA 19
DB 2354 CCAGCAGCAGCGGTAA 2369

RESULT 11
ACA43496
ID ACA43496 standard; DNA; 3672 BP.
XX
AC ACA43496;
XX
DT 19-JUN-2003 (first entry)
XX
DE Prokaryotic essential gene #25153.
XX
KW Antisense; ds; prokaryotic essential gene; cell proliferation;
XX drug design; gene.
XX
OS Pseudomonas putida.
XX
PN WO200277183-A2.
XX
PD 03-OCT-2002.
XX
XX 21-MAR-2002; 2002WO-US009107.
XX
PR 21-MAR-2001; 2001US-00815242.
XX
PR 06-SEP-2001; 2001US-00948993.
XX
PR 25-OCT-2001; 2001US-0342923P.
XX
PR 08-FEB-2002; 2002US-00072851.
XX
PR 06-MAR-2002; 2002US-0362699P.
XX
FA (ELIT-) ELITRA PHARM INC.
XX
XX Wang L, Zamudio C, Malone C, Haselbeck R, Ohlsen KL, Zyskind JW;
XX Wall D, Trawick JD, Carr GJ, Yamamoto R, Forsyth RA, Xu HH;
XX
XX WPI; 2003-029926/02.
XX
XX P-PSDB; ABU39626.
XX
XX New antisense nucleic acids, useful for identifying proteins or screening
XX for homologous nucleic acids required for cellular proliferation to
XX isolate candidate molecules for rational drug discovery programs.
XX
XX Claim 14; SEQ ID NO 31366; 1766pp; English.

CC The invention relates to an isolated nucleic acid comprising any one of
CC the 6213 antisense sequences given in the specification where expression
CC of the nucleic acid inhibits proliferation of a cell. Also included are:
CC (1) a vector comprising a promoter operably linked to the nucleic acid
CC encoding a polypeptide whose expression is inhibited by the antisense
CC nucleic acid; (2) a host cell containing the vector; (3) an isolated
CC polypeptide or its fragment whose expression is inhibited by the
CC antisense nucleic acid; (4) an antibody capable of specifically binding
CC the polypeptide; (5) producing the polypeptide; (6) inhibiting cellular
CC proliferation or the activity of a gene in an operon required for
CC proliferation; (7) identifying a compound that influences the activity of
CC the gene product or that has an activity against a biological pathway
CC required for proliferation, or that inhibits cellular proliferation; (8)
CC identifying a gene required for cellular proliferation or the biological
CC pathway in which a proliferation-required gene or its gene product lies
CC or a gene on which the test compound that inhibits proliferation of an
CC organism acts; (9) manufacturing an antibiotic; (10) profiling a
CC compound's activity; (11) a culture comprising strains in which the gene
CC product is overexpressed or underexpressed; (12) determining the extent
CC to which each of the strains is present in a culture or collection of
CC strains; or (13) identifying the target of a compound that inhibits the
CC proliferation of an organism. The antisense nucleic acids are useful for
CC identifying proteins or screening for homologous nucleic acids required

CC for cellular proliferation to isolate candidate molecules for rational
CC drug discovery programs, or for screening homologous nucleic acids
CC required for proliferation in cells other than *S. aureus*, *S. typhimurium*,
CC *K. pneumoniae* or *P. aeruginosa*. The present sequence is one of the target
CC prokaryotic essential genes. Note: The sequence data for this patent did
CC not form part of the printed specification, but was obtained in
CC electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 3672 BP; 660 A; 1207 C; 1179 G; 626 T; 0 U; 0 Other;
XX
Query Match 76.2%; Score 16; DB 7; Length 3672;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGG 16
DB 3545 GTGCCAGCAGCAGCGG 3560

RESULT 12
ABLI1242
ID ABLI1242 standard; cDNA; 5471 BP.
XX
AC ABLI1242;
XX
DT 26-MAR-2002 (first entry)
XX
DE Drosophila melanogaster expressed polynucleotide SEQ ID NO 28208.
XX
XX Drosophila; developmental biology; cell signalling; insecticide;
XX pharmacological; gene; ss.
XX
XX Drosophila melanogaster.
XX
XX WO200171042-A2.
XX
XX 27-SEP-2001.
XX
XX 23-MAR-2001; 2001WO-US009231.
XX
XX 23-MAR-2000; 2000US-0191637P.
XX
XX 11-JUL-2000; 2000US-00614150.
XX
XX (PEKE) PE CORP NY.
XX
XX Venter JC, Adams M, Li PWD, Myers EW;
XX
XX WPI; 2001-656860/75.
XX
XX P-PSDB; ABB67139.
XX
XX New isolated nucleic acid detection reagent for detecting 1000 or more
XX genes from *Drosophila* and for elucidating cell signalling and cell-cell
XX interactions.
XX
XX Claim 1; SEQ ID NO 28208; 21pp + Sequence Listing; English.
XX
XX The invention relates to an isolated nucleic acid detection reagent
XX capable of detecting 1000 or more genes from *Drosophila*. The invention is
XX useful in developmental biology and in elucidating cell signalling and
XX cell-cell interactions in higher eukaryotes for the development of
XX insecticides, therapeutics and pharmaceutical drugs. The invention
XX discloses genomic DNA sequences (ABU16176-ABU30511), expressed DNA
XX sequences (ABU01840-ABU16175) and the encoded proteins (ABU57737-
XX ABU72072). The sequence data for this patent did not form part of the
XX printed specification, but was obtained in electronic format directly
XX from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 5471 BP; 1481 A; 1326 C; 1238 G; 1426 T; 0 U; 0 Other;
XX
Query Match 76.2%; Score 16; DB 4; Length 5471;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CCAGCAGCAGCGGTAA 19
 Db 3971 CCAGCAGCAGCGGTAA 3986

RESULT 13
 AAF60723/c
 ID AAF60723 standard; DNA; 32 BP.
 XX
 AC AAF60723;
 XX
 DT 03-MAY-2001 (first entry)
 XX
 DE Murine DLAD signal peptide PCR primer #1.
 XX
 KW Murine; DNase; DLAD; deoxyribonuclease; endonuclease; cystic fibrosis;
 KW infectious disease; PCR primer; ss.
 XX
 OS Mus musculus.
 XX
 PN WO200112793-A1.
 XX
 PD 22-FEB-2001.
 XX
 PF 01-MAY-2000; 2000WO-JP002893.
 XX
 PR 17-AUG-1999; 99JP-00230870.
 XX
 PA (TANU/) TANUMA S.
 XX
 PI Tanuma S, Shiohawa D;
 XX
 DR WPI; 2001-218348/22.
 XX
 PT Acidic deoxyribonuclease capable of divalent cation-independent cleavage
 PT of DNA under acidic even neutral pH and not inhibited by G-actin, useful
 PT in remedies for cystic fibrosis and for treatment of infectious diseases.
 XX
 PS Example 3; Page 29; 61pp; Japanese.
 XX
 CC The present invention relates to deoxyribonuclease (DLAD) proteins and
 CC coding sequences, (see AAF60715-6 and AAF607416-7). DLAD is an
 CC endonuclease and is capable of divalent cation-independent cleavage of
 CC DNA under acidic conditions. DLAD can be used as a substitute for DNase I
 CC in treating cystic fibrosis, and is useful in the prevention and
 CC treatment of infectious diseases. The present sequence is a PCR primer
 CC for murine DLAD signal peptide (AAF60715)
 XX
 SQ Sequence 32 BP; 5 A; 13 C; 8 G; 6 T; 0 U; 0 Other;
 Query Match 71.4%; Score 15; DB 4; Length 32;
 Best Local Similarity 100.0%; Pred. No. 3.5e+02;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 TGCCAGCAGCAGCGG 16
 Db 32 TGCCAGCAGCAGCGG 18

RESULT 14
 AAC61717
 ID AAC61717 standard; DNA; 130 BP.
 XX
 AC AAC61717;
 XX
 DT 15-SEP-2003 (revised)
 DT 06-MAR-2001 (first entry)
 XX
 DE Clone VGR18 of a gene that is differentially regulated by viral Jun.
 XX
 KW Viral Jun; v-Jun; cellular Jun; c-Jun; immune system disorder;
 KW haematopoietic cell disorder; autoimmune disorder; allergy; inflammation;

organ rejection; graft-versus-host-disease; hyperproliferative disorder;
 infection; food additive; storage capability; nutritional component; ss.
 Gallus gallus.
 WO200061738-A2.
 19-OCT-2000.
 12-APR-2000; 2000WO-US009766.
 12-APR-1999; 99US-0128897P.
 (DIGI-) DIGITAL GENE TECHNOLOGIES INC.
 Vogt PK, Fu S, Halbush BS, Bottoli ILC, Dickerson JC;
 WPI; 2000-628402/60.
 Isolated nucleic acid molecules from Gallus domesticus are used for
 diagnosis and treatment of medial conditions in mammals e.g. cancers.
 Claim 3; Page 92; 99pp; English.
 The present sequence is derived from a gene that is differentially
 regulated by viral Jun (v-Jun) and cellular Jun (c-Jun). The
 polynucleotide is used to prevent, treat or ameliorate a medical
 condition, e.g. deficiencies or disorders of the immune system, of
 haematopoietic cells, autoimmune disorders, allergic conditions, organ
 rejection or graft-versus-host-disease, inflammation, hyperproliferative
 disorders, bacterial, fungal, parasitic and virus infections. It can also
 be used to modulate hemostatic or thrombolytic activity, regenerate
 tissues, increase chemotactic activity of cells, modulate mammalian
 metabolism, change the physical or mental state of a mammal and can be
 used as food additives to increase or decrease storage capabilities and
 nutritional components. (Updated on 15-SEP-2003 to standardise OS field)
 Sequence 130 BP; 40 A; 37 C; 30 G; 23 T; 0 U; 0 Other;
 Query Match 71.4%; Score 15; DB 3; Length 130;
 Best Local Similarity 100.0%; Pred. No. 3.5e+02;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GTGCCAGCAGCAGCG 15
 Db 51 GTGCCAGCAGCAGCG 65

RESULT 15
 ADD1780/c
 ID ADD1780 standard; DNA; 197 BP.
 XX
 AC ADD1780;
 XX
 DT 15-JAN-2004 (first entry)
 XX
 DE DNA (SeqID 1848) that confers an altered visual phenotype in plants.
 XX
 KW ds; visual phenotype; plant; architecture; leaf surface; chlorotic;
 KW bleaching; etching; wet leaf; stunting; elongation; texture;
 KW agronomic trait; growth regulation; dwarf variety; insect resistance;
 KW heat stress; transgenic.
 XX
 OS Unidentified.
 XX
 PN WO2003020741-A1.
 XX
 PD 13-MAR-2003.
 XX
 PF 30-AUG-2002; 2002WO-US027880.
 XX
 PR 31-AUG-2001; 2001US-0316326P.
 XX

PA (DOWC) DOW CHEM CO.
 PA (DOWC) DOW AGROSCIENCES LLC.
 XX
 PI Crosley R, Skokut T, Ruegger M, Larrinua I, Shukla V;
 XX
 XX WPI; 2003-300858/29.
 DR
 XX Novel isolated nucleic acid derived from Nicotiana benthamiana, Oryzae
 PT sativa, Saccharomyces cerevisiae, and Papaver rhoeas, useful for
 PT conferring altered visual phenotypes in plants.
 XX
 XX Claim 1; SEQ ID NO 1848; 517pp; English.
 PS
 XX This invention relates to the identification and isolation of novel
 CC nucleic acid molecules that confer altered visual phenotypes in plants.
 CC Specifically, it refers to modifications of plant architecture and/or
 CC leaf surface features in plants, such as chlorotic, bleaching, etching,
 CC wet leaf, stunting, elongation and texture phenotypes, which are thought
 CC will be agronomic traits beneficial to the farmer. As such, these novel
 CC phenotypes can affect growth regulation i.e. useful for creating dwarf
 CC varieties, exhibit resistance to insects or heat stress, confer changes
 CC in pigment content such that plants have enhanced vitamin production or
 CC delayed senescence and also for example produce plants that control the
 CC production of ethylene. Furthermore, the present invention comprises
 CC generating transgenic plants, as well as reproducibly altering the visual
 CC phenotype of plant seeds, plant tissues and plant cells containing the
 CC polynucleotides described herein. This polynucleotide is a homologue of a
 CC DNA sequence that confers an altered visual phenotype when expressed in
 CC plants, the method of the invention.
 XX
 SQ Sequence 197'BP; 46 A; 66 C; 42 G; 43 T; 0 U; 0 Other;

Query Match 71.4%; Score 15; DB 9; Length 197;
 Best Local Similarity 100.0%; Pred. No. 3.5e+02;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GCCAGCAGCAGCGGT 17
 Db 74 GCCAGCAGCAGCGGT 60
 |||||

Search completed: August 4, 2004, 06:43:39
 Job time : 174.554 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 05:41:25 ; Search time 1462.92 Seconds
(without alignments)
428.668 Million cell updates/sec

Title: US-09-940-860-4

Perfect score: 21
Sequence: 1 gtgccagcagcagcggtaata 21

Scoring table: OLIGO NUC
Gapex 60.0 , Gapext 60.0

Searched: 27513289 seqs, 14931090276 residues

Word size : 0
Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

- 1: em_estba:*
- 2: em_esthum:*
- 3: em_estlin:*
- 4: em_estmu:*
- 5: em_estov:*
- 6: em_estpl:*
- 7: em_estro:*
- 8: em_hic:*
- 9: gb_esti:*
- 10: gb_est2:*
- 11: gb_hic:*
- 12: gb_est3:*
- 13: gb_est4:*
- 14: gb_est5:*
- 15: em_estfun:*
- 16: em_estom:*
- 17: em_gss_hum:*
- 18: em_gss_inv:*
- 19: em_gss_pln:*
- 20: em_gss_vrt:*
- 21: em_gss_fun:*
- 22: em_gss_mam:*
- 23: em_gss_mus:*
- 24: em_gss_pro:*
- 25: em_gss_rod:*
- 26: em_gss_pbg:*
- 27: em_gss_vrl:*
- 28: gb_gss1:*
- 29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	21	100.0	420	14	CD087130
C 2	21	100.0	1128	29	CG745724
C 3	20	95.2	315	12	BI936798
C 4	20	95.2	418	10	BE517377

C 5	18	85.7	915	28	AZ577920
C 6	17	81.0	743	14	CB832595
C 7	17	81.0	148	9	AU010207
C 8	17	81.0	252	14	CK107208
C 9	17	81.0	413	9	AU007074
C 10	17	81.0	460	12	BG632306
C 11	17	81.0	475	9	AA695154
C 12	17	81.0	524	10	AM940266
C 13	17	81.0	540	9	AI518472
C 14	17	81.0	554	10	BF331275
C 15	17	81.0	619	9	AI397756
C 16	17	81.0	643	14	CD865408
C 17	17	81.0	707	14	CD873121
C 18	17	81.0	724	12	BM584191
C 19	17	81.0	745	29	CC539904
C 20	17	81.0	750	28	AZ124708
C 21	17	81.0	774	29	CC849995
C 22	17	81.0	791	28	AQ914844
C 23	17	81.0	842	14	CK203195
C 24	17	81.0	865	14	CK203537
C 25	17	81.0	886	14	CA581282
C 26	17	81.0	933	14	CA583053
C 27	17	81.0	1101	29	CNS0025C
C 28	17	81.0	1163	13	BU598465
C 29	16	76.2	186	28	AZ269457
C 30	16	76.2	222	10	BB589921
C 31	16	76.2	225	10	BB604685
C 32	16	76.2	277	10	AW866950
C 33	16	76.2	278	13	BU648979
C 34	16	76.2	336	9	AJ281902
C 35	16	76.2	337	13	BY326251
C 36	16	76.2	337	13	BY775272
C 37	16	76.2	338	13	BY275520
C 38	16	76.2	355	12	BI138225
C 39	16	76.2	355	13	BY318904
C 40	16	76.2	359	9	AA670731
C 41	16	76.2	370	13	BY769530
C 42	16	76.2	370	29	EX218719
C 43	16	76.2	373	13	BY012711
C 44	16	76.2	374	28	BH677479
C 45	16	76.2	376	13	BY769221

ALIGNMENTS

RESULT 1
CD087130/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS

CD087130 420 bp mRNA linear EST 14-SEP-2003
MCI-0035T-R100-D10-U.G MCI-0035 Schistosoma mansoni CDNA clone
MCI-0035T-R100-D10.G, mRNA sequence.
CD087130
CD087130.1 GI:34638055
EST.
Schistosoma mansoni
Schistosoma mansoni
Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea;
Strigeidida; Schistosomatidae; Schistosomatidae; Schistosoma.
1 (bases 1 to 420)

Verjovski-Almeida, S., DeMarco, R., Martins, E.A.L., Guimaraes, P.E.M.,
Ojopi, E.P.B., Paquola, A.C.M., Piazza, J.P., Nishiyama, M.Y. Jr.,
Kitajima, J.P., Adamson, R.E., Ashton, P.D., Bonaldo, M.F.,
Coulson, P.S., Dillon, G.P., Farias, L.P., Gregorio, S.P., Ho, P.L.,
Leite, R.A., Malaquias, L.C.C., Marques, R.C.P., Miyasato, P.A.,
Nascimento, A.L.T.O., Ohlweiler, F.P., Reis, E.M., Ribeiro, M.A.,
Sa, R.G., Stukart, G.C., Soares, M.B., Gargioni, C., Kawano, F.,
Rodrigues, V., Madeira, A.M.B.N., Wilson, R.A., Menck, C.F.M.,
Setubal, J.C., Leite, L.C.C. and Dias-Neto, E.

Transcriptome analysis of the acelomate human parasite Schistosoma
mansoni
Nat. Genet. 35 (2), 148-157 (2003)
22879926
Contact: Dr. Sergio Verjovski-Almeida

TITLE
JOURNAL
MEDLINE
COMMENT

Departamento de Bioquímica
 Instituto de Química - Universidade de São Paulo
 Av. Prof. Lineu Prestes 748 sala 1200, 05508-900 São Paulo - SP,
 Brasil
 Tel.: +55-11-3091-2173
 Fax: +55-11-3091-2186
 Email: verjoe@iq.usp.br
 This sequence was derived from the FAPESP Schistosoma mansoni EST
 Genome Project. All sequences in the project were assembled and
 annotated. This entry and all the assembled sequences can be seen
 in the following URL <http://bioinfo.iq.usp.br/schisto/>
 Plate: MC1-0035T-R100 row: 10 column: D.

FEATURES

source
 1..420
 /organism="Schistosoma mansoni"
 /mol_type="mRNA"
 /db_xref="taxon:6183"
 /clone="MC1-0035T-R100-D10.G"
 /sex="mixed pool"
 /dev_stage="cercaria"
 /lab_hosts="Biomphalaria glabrata"
 /clone_lib="MC1-0035"
 /note="Vector: pGEM T-easy"

ORIGIN

Query Match 100.0%; Score 21; DB 14; Length 420;
 Best Local Similarity 100.0%; Pred. No. 7.3; Indels 0; Gaps 0;
 Matches 21; Conservative 0; Mismatches 0;

Qy 1 GTGCCAGCAGCAGCGGTAATA 21
 |||||
 Db 31 GTGCCAGCAGCAGCGGTAATA 11

RESULT 2

CG745724 1128 bp DNA linear GSS 24-OCT-2003
 P038-3-H12.Ya Ppa EcoRI BAC Library Pristionchus pacificus genomic,
 genomic survey sequence.

CG745724

CG745724.1 GI:37966650

GSS.

Pristionchus pacificus

Pristionchus pacificus

Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;

Neodiplogasteridae; Pristionchus.

1 (bases 1 to 1128)

Srinivasan,J., Sinz,W., Jesse,T., Wiggers-Perebolte,L., Jansen,K.,

Buntjer,J., van der Meulen,M. and Sommer,R.J.

An integrated physical and genetic map of the nematode Pristionchus

pacificus

Mol. Genet. Genomics 269 (5), 715-722 (2003)

22835951

12884007

Contact: Sommer RJ

Evolutionary Biology

Max-Planck-Institute for Developmental Biology

Spemannstr. 37-39, Tuebingen D-72076, Germany

Tel: 00497071601371

Fax: 00497071601498

Email: ralf.sommer@tuebingen.mpg.de

Class: BAC ends.

Location/Qualifiers

1..1128

/organism="Pristionchus pacificus"

/mol_type="genomic DNA"

/strain="California"

/db_xref="taxon:54126"

/clone_lib="Ppa EcoRI BAC Library"

/note="The library was generated by a partial digest of

the genomic DNA with EcoRI and cloning into the BAC

vector."

ORIGIN

Query Match 100.0%; Score 21; DB 29; Length 1128;
 Best Local Similarity 100.0%; Pred. No. 8.4; Indels 0; Gaps 0;
 Matches 21; Conservative 0; Mismatches 0;

Qy 1 GTGCCAGCAGCAGCGGTAATA 21
 |||||
 Db 477 GTGCCAGCAGCAGCGGTAATA 497

RESULT 3

BI936798/c

LOCUS

DEFINITION

BI936798

316 bp mRNA linear

EST.

ACCESSION

BI936798.1

GI:16251270

VERSION

EST.

KEYWORDS

SOURCE

ORGANISM

Xenopus laevis (African clawed frog)

Xenopus laevis

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Amphibia; Batrachia; Anura; Mesobatrachia; Pipidoidea; Pipidae;

Xenopodinae; Xenopus.

1 (bases 1 to 316)

REFERENCE

NCI-CGAP

http://www.ncbi.nlm.nih.gov/ncicgap.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP).

Tumor Gene Index

Unpublished (1997)

JOURNAL

COMMENT

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov

Tissue Procurement: Martha Rebert, Steven L. Klein, Ph.D.

cDNA Library Preparation: Life Technologies, Inc.

DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)

Clone distribution: Xenopus clones from this library are available

through the I.M.A.G.E. Consortium/LLNL at: info@image.llnl.gov

Trace considered overall poor quality

Possible reversed clone: similarity on wrong strand

Seq primer: -400P from Gibco

High quality sequence stop: 1.

Location/Qualifiers

1..316

/organism="Xenopus laevis"

/mol_type="mRNA"

/db_xref="taxon:8355"

/clones="IMAGE:3404257"

/tissue_type="oocytes"

/lab_hosts="DH10B (phage-resistant)"

/clone_lib="NICHD XCC 001"

/note="vector: pCMV-SORT6; Site 1: NotI; Site 2: SalI;

Cloned unidirectionally. Primer: Oligo dt. Average insert

size 2.2 Kb. Constructed by life technologies."

ORIGIN

Query Match 95.2%; Score 20; DB 12; Length 316;

Best Local Similarity 100.0%; Pred. No. 20;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCCAGCAGCAGCGGTAAT 20

|||||

Db 299 GTGCCAGCAGCAGCGGTAAT 280

|||||

RESULT 4

BI517377/c

LOCUS

DEFINITION

BI517377

418 bp mRNA linear

EST 08-AUG-2000

WHE0625_B06_C112a Wheat ABA-treated embryo cDNA library Triticum

aestivum cDNA clone WHE0625_B06_C11, mRNA sequence.

ACCESSION

BI517377

VERSION

BI517377.1

GI:9741407

KEYWORDS

EST.

SOURCE

Triticum aestivum (bread wheat)


```

ORGANISM      Triticum aestivum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Poideae; Triticeae; Triticum.
REFERENCE
AUTHORS      1 (bases 1 to 418)
Anderson,O.D.; Chao,S.; Han,P.S.; Hsia,C.C.; Johnson,R.R.; Kang,Y.;
Lazo,G.R.; Miller,R.; Rausch,C.J.; Seaton,C.L.; Tong,J.C.;
Verhey,S.D. and Walker-Simmons,M.K.
TITLE        The structure and function of the expressed portion of the wheat
              genomes - ABA-treated embryo library
JOURNAL      Unpublished (2000)
COMMENT      Contact: Olin Anderson
              US Department of Agriculture, Agriculture Research Service, Pacific
              West Area, Western Regional Research Center
              800 Buchanan Street, Albany, CA 94710, USA
              Tel: 5105595773
              Fax: 5105595818
              Email: oanderson@ow.usda.gov
              Sequence have been trimmed to remove vector sequence and low
              quality sequence with phred score less than 20
              Seq primer: Clontech Matchmaker 3' AD primer.
FEATURES
source
1..418
/organism="Triticum aestivum"
/mol_type="mRNA"
/cultivar="Breavor (soft, white, winter, common wheat)"
/db_xref="taxon:4565"
/clone="WHE0625 B06_C11"
/tissue_type="Seed embryo"
/dev_stage="Mature dormant seeds"
/lab_host="E. coli DH12S"
/clone_lib="Wheat ABA-treated embryo cDNA library"
/notes="Vector: pGAD10; Site_1: EcoRI; Site_2: XhoI;
Embryos were cut from mature, dormant seeds and imbibed in
25 microM ABA (abscisic acid) in 5 mM Mes buffer, pH 5.7,
for 12 hr at 22 C. The tissue, total RNA, and poly(A)
RNA were prepared by Steven Verhey in M.K.
Walker-Simmons's lab (USDA-ARS, Washington State Univ.,
Pullman, Washington 99164-6420. A cDNA library was made
by Clontech using a combination of random and oligo dT
primers. Library was plated and archived by Russell
Johnson (Colby College, ME/Walker-Simmons' lab). Plasmid
DNA preparations and DNA sequencing were performed in the
OD Anderson lab (all other authors)."
```

```

ORIGIN
Query Match      95.2%; Score 20; DB 10; Length 419;
Best Local Similarity 100.0%; Pred. No. 21;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  GTCCAGCAGCAGCGGTAAT 20
        |||||
Db      304 GTCCAGCAGCAGCGGTAAT 285

RESULT 5
AZ677920/c      915 bp      DNA      linear      GSS 14-DEC-2000
LOCUS          ENTXH63RT Entamoeba histolytica Sheared DNA Entamoeba histolytica
DEFINITION     Genomic, genomic survey sequence.
ACCESSION      AZ677920
VERSION        AZ677920.1 GI:11815186
KEYWORDS       GSS.
SOURCE         Entamoeba histolytica
ORGANISM       Eukaryota; Entamoebidae; Entamoeba.
REFERENCE
AUTHORS        Loftus,B., Van Aken,S. and Fraser,C.
TITLE          Determination of clone end sequences from Entamoeba histolytica
              HM1:IMSS sheared DNA library
JOURNAL        Unpublished (2000)
COMMENT        Contact: Brendan J Loftus
              Department of Eukaryotic Genomics

The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0208
Fax: 301 838 3543
Email: bjlouftus@tigr.org
Clones are derived from the Entamoeba histolytica HM1:IMSS sheared
DNA library
Seq primer: M13-Reverse
Class: shotgun
High quality sequence start: 176
High quality sequence stop: 283.
FEATURES
source
1..915
/organism="Entamoeba histolytica"
/mol_type="genomic DNA"
/strain="HM1:IMSS"
/db_xref="taxon:5759"
/clone_lib="Entamoeba histolytica Sheared DNA"
/notes="Vector: PHOS1; Site 1: Bst I; Constructed at The
Institute for Genomic Research (TIGR), Rockville, MD.
Genomic DNA isolated from broth cultures of E. histolytica
using a method described by Clark and Diamond (Clark,
C.G., and Diamond, L.S. (1993) Entamoeba histolytica: a
method for isolate identification. Exp. Parasitol.
77:450.). The DNA was mechanically sheared to give a
tight size distribution (~2 kb). The v + i method used for
the library construction is described in detail in Smith,
H.O. and Venter, J.C. (Making small insert libraries for
whole genome shotgun sequencing projects. In Genome
Sequencing: A Practical Approach, eds. M. Vaudin and B.
Bartell, Oxford University Press, 1999)."
```

```

ORIGIN
Query Match      85.7%; Score 18; DB 28; Length 915;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3  GCCAGCAGCAGCGGTAAT 20
        |||||
Db      891 GCCAGCAGCAGCGGTAAT 874

RESULT 6
CB832595/c      73 bp      mRNA      linear      EST 21-APR-2003
LOCUS          SWBmfcAV08B01SK Wuchereria bancrofti microfilaria cDNA
DEFINITION     (SW95Sjl-Wbmf) Wuchereria bancrofti cDNA clone SWBmfcAV08B01 5',
              mRNA sequence.
ACCESSION      CB832595
VERSION        CB832595.1 GI:30030842
KEYWORDS       EST.
SOURCE         Wuchereria bancrofti
ORGANISM       Eukaryota; Metazoa; Nematoda; Chromadorea; Spirurida; Filarioidea;
              Onchocercidae; Wuchereria.
REFERENCE
AUTHORS        Williams,S.A.
TITLE          Genes expressed in microfilaria of Wuchereria bancrofti
JOURNAL        Unpublished (1996)
COMMENT        Contact: Steven A. Williams
              Molecular Parasitology
              Smith College Department of Biological Sciences
              Department of Biological Sciences, Clark Science Center, Smith
              College, Northampton, MA, 01063, USA
              Tel: 4135853826
              Fax: 4135853786
              Email: genome@smith.edu
              Seq primer: pBluescript SK.
              Location/Qualifiers
              1..73
              /organism="Wuchereria bancrofti"
              /mol_type="mRNA"
              /db_xref="taxon:6293"
```

/clone="SWbmfCAV08501"
 /dev stage="microfilaria"
 /lab host="XLI-Blue MRF"
 /clone lib="Wuchereria bancrofti microfilaria cDNA
 (SAW955JL-WBMF)"
 /note=Vector: Lambda Uni-ZAP XR, Site_1: Eco RI, Site_2:
 Xho I; Lymphatic filarial nematode parasite of humans.
 mRNA was prepared from approximately 85,000 microfilariae
 isolated from the blood of an infected individual from
 Guyana, South America and converted to double-stranded
 cDNA using reverse transcriptase and oligo(dT) followed by
 RNase H and DNA pol I. The library has 2.9 x 10E5
 independent recombinants and the average insert size is
 ~1kb. The library was constructed by Sandra J. Lane. The
 library is available from Dr.S.A.Williams, email:
 genome@smith.edu."

ORIGIN

Query Match 81.0%; Score 17; DB 14; Length 73;
 Best Local Similarity 100.0%; Pred. No. 3.9e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CAGCAGCAGCGGTAATA 21
 |||||

Db 37 CAGCAGCAGCGGTAATA 21
 |||||

RESULT 7

AU010207

LOCUS

DEFINITION

AU010207 Schizosaccharomyces pombe late log phase cDNA EST 31-JUL-1998

Schizosaccharomyces pombe cDNA clone spc05561, mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Unpublished (1998)

Contact: Mitsuo Morimyo

Genome Research Group

National Institute of Radiological Sciences

9-1, Anagawa-4-chome, Inage-ku, Chiba, Chiba 263-8555, Japan

Email: morimyo@nirs.go.jp.

Location/Qualifiers

1. .148

/organism="Schizosaccharomyces pombe"

/mol_type="rRNA"

/strain="972"

/db_xref="taxon:4896"

/clone="spc05561"

/sex="h minus"

/note=Vector: M13mp19; The cDNA library of

Schizosaccharomyces pombe was prepared by cloning cDNA

into the SmaI site of M13mp19 DNA and the direction of DNA

sequences was not always from 5' to 3'. The cDNA data of

Schizosaccharomyces pombe are available for searching on

the World Wide Web. (URL, http://www.nirs.go.jp)"

ORIGIN

Query Match 81.0%; Score 17; DB 9; Length 148;
 Best Local Similarity 100.0%; Pred. No. 4.3e+02;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCCAGCAGCGGT 17
 |||||

Db 68 GTGCCAGCAGCGGT 84

RESULT 8

CK107208

LOCUS

DEFINITION

CK107208

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

Populus tremula

Populus tremula

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;

rosids; eurosids I; Malpighiales; Salicaceae; Salicaceae; Populus.

1 (bases 1 to 252)

REFERENCE

AUTHORS

STERKY, F., Bhalerao, R., Unneberg, P., Segerman, B., Nilsson, P.,

Brunner, A.M., Campaa, L., Jonsson-Lindvall, J., Tandré, K.,

Strauss, S.H., Sundberg, B., Gustafsson, P., Uhlen, M., Bhalerao, R.P.,

Nilsson, O., Sandberg, G., Karlsson, J., Lundberg, J. and Jansson, S.

A Populus EST resource for functional genomics

Unpublished (2003)

Other ESTs: UB49DPG02, UB49DPG02.3pr

Contact: Bo Segerman

Umea Plant Science Center, Department of Plant Physiology

Umea University

901 87 Umea, Sweden

Tel: +46 90 786 5279

Fax: +46 90 786 6676

Email: bo.segerman@plantphys.umu.se.

Location/Qualifiers

1. .252

/organism="Populus tremula"

/mol_type="mRNA"

/db_xref="taxon:113636"

/clone="UB49DPG02"

/tissue type="Active cambium"

/clone_lib="Populus active cambium cDNA library"

ORIGIN

Query Match 81.0%; Score 17; DB 14; Length 252;

Best Local Similarity 100.0%; Pred. No. 4.6e+02;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CAGCAGCAGCGGTAATA 21
 |||||

Db 189 CAGCAGCAGCGGTAATA 205
 |||||

RESULT 9

AU007074/c

LOCUS

DEFINITION

AU007074

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

Schizosaccharomyces pombe (fission yeast)

Schizosaccharomyces pombe

Eukaryota; Fungi; Ascomycota; Schizosaccharomycetes;

Schizosaccharomycetales; Schizosaccharomycetaceae;

Schizosaccharomycetes.

1 (bases 1 to 413)

REFERENCE

AUTHORS

Morimyo, M. and Mita, K.

Identification of expressed sequence tags of Schizosaccharomycetes

Unpublished (1998)

Contact: Mitsuo Morimyo

Genome Research Group

National Institute of Radiological Sciences

9-1, Anagawa-4-chome, Inage-ku, Chiba, Chiba 263-8555, Japan

Email: morimyo@nirs.go.jp.

FEATURES

source
Location/Qualifiers
1. .413
/organism="Schizosaccharomyces pombe"
/mol_type="mRNA"
/strain="972"
/db_xref="taxon:4896"
/clone="spc01418"
/sex="h minus"
/clone_lib="Schizosaccharomyces pombe late log phase cDNA"
/note="Vector: M13mp19; The cDNA library of Schizosaccharomyces pombe was prepared by cloning cDNA into the SmaI site of M13mp19 DNA and the direction of DNA sequences was not always from 5' to 3'. The cDNA data of Schizosaccharomyces pombe are available for searching on the World Wide Web. (URL, <http://www.nirs.go.jp>)"

ORIGIN

Query Match 81.0%; Score 17; DB 9; Length 413;
Best Local Similarity 100.0%; Pred. No. 4.9e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GTGCCAGCAGCAGCGGT 17
|||||
Db 80 GTGCCAGCAGCAGCGGT 64
|||||

RESULT 10

BG632306/c
LOCUS
DEFINITION
BG632306 460 bp mRNA linear EST 23-APR-2001
melanogaster cDNA clone GH06375 3, mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

Drosophila melanogaster (fruit fly)
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.

REFERENCE

1 (bases 1 to 460)
Harvey, D., Brokstein, P., Hong, L., Evans-Holm, M., Su, C., Teang, G.,
Lewis, S. and Rubin, G.M.
BDGP/HMI Drosophila EST Project
Unpublished (2001)
Other ESTs: GH06375.5prime
Contact: Stapleton, M.
BDGP

TITLE

JOURNAL

COMMENT

Lawrence Berkeley National Lab
One Cyclotron Rd, Berkeley, CA 94720, USA
Fax: 510 486 6798
Email: <http://www.fruitfly.org/EST.estimate@fruitfly.berkeley.edu>
Based upon the presence of a XhoI site followed by a run of 14 or
more T residues at the beginning of the sequence, this clone was
polyadenylated. The resulting Poly-T sequence has been removed. hit
genomic AB003763: arm:3R (23621985,23825541)
estimated-cyto:98B1-98B6: 04/10/2001
Plate: GH.63 row: G column: 3
High quality sequence stop: 444.
Location/Qualifiers

FEATURES

source

1. .460
/organism="Drosophila melanogaster"
/mol_type="mRNA"
/db_xref="taxon:7227"
/clone="GH06375"
/sex="male and female"
/dev_stage="adult"
/lab_host="DH5 - alpha"
/clone_lib="GH Drosophila melanogaster head pot2"
/note="Organ: head; Vector: pOT2; Site 1: EcoRI; Site 2:
XhoI; Sized fractionated cDNAs were directly ligated into
pOT2. Plasmid cDNA library."

ORIGIN

Query Match 81.0%; Score 17; DB 12; Length 460;
Best Local Similarity 100.0%; Pred. No. 5e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 TCCCAGCAGCAGCGGTA 18
|||||
Db 156 TCCCAGCAGCAGCGGTA 140
|||||

RESULT 11

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

AA695154/c
LOCUS
DEFINITION
AA695154 475 bp mRNA linear EST 23-APR-2001
Drosophila melanogaster cDNA clone GH02326 3prime, mRNA sequence.
AA695154
AA695154.1 GI:2697774
EST.
Drosophila melanogaster (fruit fly)
Drosophila melanogaster
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

1 (bases 1 to 475)
Harvey, D., Brokstein, P., Hong, L., Evans-Holm, M., Su, C., Tsang, G.,
Lewis, S. and Rubin, G.M.
BDGP/HMI Drosophila EST Project
Unpublished (2001)
Contact: Stapleton, M.
BDGP

Lawrence Berkeley National Lab
One Cyclotron Rd, Berkeley, CA 94720, USA
Fax: 510 486 6798
Email: <http://www.fruitfly.org/EST.estimate@fruitfly.berkeley.edu>
Based upon the presence of a XhoI site followed by a run of 14 or
more T residues at the beginning of the sequence, this clone
probably contains an inverted insert. The sequence has been trimmed
and the T residues removed.
Plate: 23 row: C column: 2
High quality sequence stop: 406.
Location/Qualifiers

FEATURES

source

1. .475
/organism="Drosophila melanogaster"
/mol_type="mRNA"
/db_xref="taxon:7227"
/clone="GH02326"
/sex="female"
/dev_stage="newly eclosed females: germarium-stage 6"
/lab_host="SOLR"
/clone_lib="GM Drosophila melanogaster ovary BlueScript"
/note="Organ: ovary; Vector: BlueScript SK; Site 1: EcoRI;
Site 2: XhoI; Constructed using Stratagene ZAP-cDNA
Synthesis kit. Oligo dt-primed and directionally cloned at
EcoRI and XhoI in BlueScript SK(+/-)"

ORIGIN

Query Match 81.0%; Score 17; DB 9; Length 475;
Best Local Similarity 100.0%; Pred. No. 5e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 TCCCAGCAGCAGCGGTA 18
|||||
Db 156 TCCCAGCAGCAGCGGTA 140
|||||

RESULT 12

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

EST.

EST.

AW940266
LOCUS
DEFINITION
AW940266 524 bp mRNA linear EST 02-DEC-2003
GH07623.3prime GH Drosophila melanogaster head pot2 Drosophila
melanogaster cDNA clone GH07623 3 similar to CG5514: FBan005514
GO: {} located on: 3R 98B2-98B2; 08/12/2002, mRNA sequence.
AW940266
AW940266.1 GI:8115712
EST.
AW940266.1

SOURCE
ORGANISM Drosophila melanogaster (fruit fly)
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
REFERENCE 1 (bases 1 to 524)
AUTHORS Harvey,D., Brokstein,P., Hong,L., Evans-Holm,M., Su,C., Tsang,G., Lewis,S. and Rubin,G.M.
TITLE BDGP/HMI Drosophila EST Project
JOURNAL Unpublished (2001)
COMMENT Other ESTs: GH07623-5prime
Contact: Stapleton, M.
BDGP
Lawrence Berkeley National Lab
One Cyclotron Rd, Berkeley, CA 94720, USA
Fax: 510 486 6798
Email: http://www.fruitfly.org/EST_est@fruitfly.berkeley.edu
Based upon the presence of a XhoI site followed by a run of 14 or more T residues at the beginning of the sequence, this clone was polyadenylated. The resulting Poly-T sequence has been removed. hit genomic AE003763: Drosophila melanogaster genomic scaffold 14200013386035 section 88 of 105, complete sequence.: 02/16/2001
Plate: GH.76 row: B column: 11
High quality sequence stop: 382.
Location/Qualifiers
1. 524
/organism="Drosophila melanogaster"
/mol_type="mRNA"
/db_xref="taxon:7227"
/clone="GH07623"
/sex="male and female"
/dev_stage="adult"
/lab_host="DH5 - alpha"
/clone_lib="GH Drosophila melanogaster head pOT2"
/note="Organ: head; Vector: pOT2; Site: 1; EcoRI; Site 2: XhoI; Sized fractionated cDNAs were directly ligated into pOT2. Plasmid cDNA library."

ORIGIN
Query Match 81.0%; Score 17; DB 10; Length 524;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TGCCAGCAGCAGCGGTA 18
|||||
Db 156 TGCCAGCAGCAGCGGTA 140

RESULT 13
A1518472/c
LOCUS A1518472 540 bp mRNA linear EST 19-APR-2001
DEFINITION LD37996.3prime LD Drosophila melanogaster embryo pOT2 Drosophila melanogaster cDNA clone LD37996 3prime, mRNA sequence.
ACCESSION A1518472
VERSION A1518472.1 GI:4424326
KEYWORDS EST.
SOURCE Drosophila melanogaster (fruit fly)
ORGANISM Drosophila melanogaster
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
REFERENCE 1 (bases 1 to 540)
AUTHORS Harvey,D., Brokstein,P., Hong,L., Evans-Holm,M., Su,C., Tsang,G., Lewis,S. and Rubin,G.M.
TITLE BDGP/HMI Drosophila EST Project
JOURNAL Unpublished (2001)
COMMENT Contact: Stapleton, M.
BDGP
Lawrence Berkeley National Lab
One Cyclotron Rd, Berkeley, CA 94720, USA
Fax: 510 486 6798
Email: http://www.fruitfly.org/EST_est@fruitfly.berkeley.edu
Based upon the presence of a XhoI site followed by a run of 14 or

more T residues at the beginning of the sequence, this clone probably contains an inverted insert. The resulting Poly-T sequence has been removed.
Plate: 379 row: H column: 12
High quality sequence stop: 440.
Location/Qualifiers
1. 540
/organism="Drosophila melanogaster"
/mol_type="mRNA"
/db_xref="taxon:7227"
/clone="LD37996"
/sex="male and female"
/dev_stage="0 to 24 hours mixed stage embryonic"
/lab_host="XL1 Blue"
/clone_lib="LD Drosophila melanogaster embryo pOT2"
/note="Organ: embryo; Vector: pOT2; Site 1: EcoRI; Site 2: XhoI; Sized fractionated cDNAs were directly ligated into pOT2. "

ORIGIN
Query Match 81.0%; Score 17; DB 9; Length 540;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TGCCAGCAGCAGCGGTA 18
|||||
Db 156 TGCCAGCAGCAGCGGTA 140

RESULT 14
BF331275/c
LOCUS BF331275 554 bp mRNA linear EST 22-NOV-2000
DEFINITION RCS-BT0377-030200-012-G03 BT0377 Homo sapiens cDNA, mRNA sequence.
ACCESSION BF331275
VERSION BF331275.1 GI:11302023
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 554)
AUTHORS Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones M.R., Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsumura,A., Baia,G.S., Simpson,D.H., Brunstein,A., deoliveira,P.S., Sucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.
TITLE Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
MEDLINE 20202663
PUBMED 10737800
COMMENT Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome project. This entry can be seen in the following URL (<http://www.ludwig.org.br/scripts/gethtml2.pl?l1=RCS&t2=RCS-BT0377-030200-012-G03&t3=2000-02-03&t4=1>)
Seq primer: puc 18 forward
High quality sequence start: 74
High quality sequence stop: 91.
Location/Qualifiers
1. 554
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"

Db 279 GTGCCAGCAGCGGGT 263

Search completed: August 4, 2004, 09:20:58
Job time : 1466.92 secs

/clone lib="BT0377"
/note="Organ: breast; Vector: puc18; Site 1: SmaI; Site 2:
SmaI; A mini-library was made by cloning products derived
from ORESTES PCR (U.S. Letters Patent application No.
156,716 - Ludwig Institute for Cancer Research) profiles
into the pUC 18 vector. Reverse transcription of tissue
mRNA and cDNA amplification were performed under low
stringency conditions."

ORIGIN

Query Match 81.0%; Score 17; DB 10; Length 554;
Best Local Similarity 100.0%; Pred. No. 5.1e+02; Indels 0; Gaps 0;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GCCAGCAGCAGCGGTAA 19
|||||
Db 49 GCCAGCAGCAGCGGTAA 33
|||||

RESULT 15
AI397756/c

LOCUS
DEFINITION NCCSH8T3 Conidial Neurospora crassa cDNA clone NCSH8 5', mRNA
619 bp mRNA linear EST 08-FEB-1999

ACCESSION AI397756
VERSION AI397756.1 GI:4240841
KEYWORDS EST.

ORGANISM

Neurospora crassa
Neurospora crassa
Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
Sordariomycetidae; Sordariales; Sordariaceae; Neurospora.

REFERENCE

AUTHORS
Nelson, M.A., Kang, S., Braun, E.L., Crawford, M.E., Dolan, P.L.,
Leonard, P.M., Mitchell, J., Armijo, A.M., Bean, L., Blueyes, E.,
Cushing, T., Errett, A., Fleharty, M., Gorman, M., Judson, K.,
Miller, R., Ortega, J., Pavlova, I., Perea, J., Todisco, S.,
Trujillo, R., Valentine, J., Wells, A., Werner-Washburne, M., Yazzie, S.
and Natvig, D.O.
Expressed sequences from conidial, mycelial, and sexual stages of

TITLE

Neurospora crassa

JOURNAL

Fungal Genet. Biol. 21, 348-363 (1997)

MEDLINE

97435549

PUBMED

9290248

COMMENT

Contact: Natvig, D.O./Nelson, M.A.
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University of New Mexico
Casseter Hall, Albuquerque, NM 87131, USA
Tel: 505 277 3411
Fax: 505 277 0304
Email: ngp@biology.unm.edu.

FEATURES

source

1..619
Location/Qualifiers
/organism="Neurospora crassa"
/mol_type="mRNA"
/strain="74-OR23-1V A"
/db_xref="taxon:5141"
/clone="NCSH8"
/sex="Mating type A"
/tissue_type="Conidia"
/dev_stage="germinating conidia"
/clone_lib="Conidial"
/note="mRNA isolated from germinating conidia, grown in 1x
Vogel's, 2% sucrose for 4.5 hours. cDNA directionally
cloned into pBluescript SK(-) using the Uni-ZAP XR vector
system (Stratagene, La Jolla, CA)."

ORIGIN

Query Match 81.0%; Score 17; DB 9; Length 619;
Best Local Similarity 100.0%; Pred. No. 5.2e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCGGGT 17
|||||

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 06:43:54 ; Search time 218.94 Seconds
(without alignments)
247.629 Million cell updates/sec

Title: US-09-940-860-3

Perfect score: 22

Sequence: 1 acaagccgcgaacgtattca 22

Scoring table: OLIGO NUC

Gapop_60.0 , Gapext 60.0

Searched: 4754066 seqs, 1232178907 residues

Word size : 0

Total number of hits satisfying chosen parameters: 9508132

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Pending Patents NA New.*

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- 3: /cgn2_6/ptoddata/2/pna/US07_NEW_COMB.seq.*
- 4: /cgn2_6/ptoddata/2/pna/US08_NEW_COMB.seq.*
- 5: /cgn2_6/ptoddata/2/pna/US09_NEW_COMB.seq.*
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- 8: /cgn2_6/ptoddata/2/pna/US10_NEW_COMB.seq.*
- 9: /cgn2_6/ptoddata/2/pna/US60_NEW_COMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	16	72.7	1502	7 US-10-729-961-4	Sequence 4, Appli
C 2	16	72.7	1681	7 US-10-729-961-1	Sequence 1, Appli
C 3	16	72.7	8004	5 US-09-404-520B-5583	Sequence 5583, Ap
C 4	15	68.2	281443	6 US-10-896-891-531	Sequence 531, App
C 5	14	63.6	1071	7 US-10-100-683-3306	Sequence 3306, Ap
C 6	14	63.6	1080	5 US-09-404-520B-27485	Sequence 27485, A
C 7	14	63.6	1215	5 US-09-248-796A-3573	Sequence 3573, Ap
C 8	14	63.6	1271	7 US-10-767-701-12478	Sequence 12478, A
C 9	14	63.6	1378	5 US-09-404-520B-9481	Sequence 9481, Ap
C 10	14	63.6	1389	5 US-09-404-520B-20466	Sequence 20466, A
C 11	14	63.6	1553	6 US-10-425-115-166711	Sequence 166711, A
C 12	14	63.6	1866	5 US-09-404-520B-14910	Sequence 14910, A
C 13	14	63.6	1959	7 US-10-100-683-2841	Sequence 2841, Ap
C 14	14	63.6	2307	7 US-10-745-444-764	Sequence 764, App
C 15	14	63.6	2783	6 US-10-501-933-4270	Sequence 4270, Ap
C 16	14	63.6	2783	9 US-60-559-949-602	Sequence 602, App
C 17	14	63.6	10088	7 US-10-100-683-13121	Sequence 13121, A
C 18	14	63.6	67163	7 US-10-767-471-10712	Sequence 10712, A
C 19	14	63.6	77945	9 US-60-582-609-20052	Sequence 20052, A
C 20	13	59.1	19	8 US-10-714-333A-495525	Sequence 495525, A
C 21	13	59.1	19	8 US-10-714-333A-600711	Sequence 600711, A
C 22	13	59.1	25	5 US-09-860-080C-10392	Sequence 10392, A
C 23	13	59.1	25	7 US-10-843-527-118931	Sequence 118931, A
C 24	13	59.1	25	7 US-10-843-527-119246	Sequence 119246, A

C 25	13	59.1	49	5 US-09-404-520B-36908	Sequence 36908, A
C 26	13	59.1	60	9 US-60-579-902-11666	Sequence 11666, A
C 27	13	59.1	261	9 US-60-565-632-2213	Sequence 2213, Ap
C 28	13	59.1	261	9 US-60-579-082-2213	Sequence 2213, Ap
C 29	13	59.1	267	6 US-10-425-115-20380	Sequence 20380, A
C 30	13	59.1	327	7 US-10-834-967-2447	Sequence 2447, Ap
C 31	13	59.1	359	6 US-10-425-115-14666	Sequence 14666, A
C 32	13	59.1	450	5 US-09-404-520B-8744	Sequence 8744, Ap
C 33	13	59.1	450	5 US-09-404-520B-20686	Sequence 20686, A
C 34	13	59.1	471	5 US-09-404-520B-26196	Sequence 26196, A
C 35	13	59.1	480	1 PCT-US04-17686-2675	Sequence 2675, Ap
C 36	13	59.1	500	6 US-10-425-115-108619	Sequence 108619, A
C 37	13	59.1	516	7 US-10-767-701-28589	Sequence 28589, A
C 38	13	59.1	601	6 US-10-896-891-9568	Sequence 9568, Ap
C 39	13	59.1	601	6 US-10-896-891-9569	Sequence 9569, Ap
C 40	13	59.1	658	1 PCT-US04-08371A-304	Sequence 304, App
C 41	13	59.1	702	7 US-10-724-972A-2882	Sequence 2882, Ap
C 42	13	59.1	749	6 US-10-425-115-97664	Sequence 97664, A
C 43	13	59.1	750	6 US-10-425-115-164349	Sequence 164349, A
C 44	13	59.1	759	9 US-60-554-981-1436	Sequence 1436, Ap
C 45	13	59.1	1146	7 US-10-100-683-1635	Sequence 1635, Ap

ALIGNMENTS

RESULT 1

US-10-729-961-4/c

; Sequence 4, Application US/10729961

; GENERAL INFORMATION:

; APPLICANT: IWASE, Tadayuki

; APPLICANT: ITANO, Morihide

; APPLICANT: YANO, Yoshitaka

; TITLE OF INVENTION: Primers For Detecting Fusobacterium Nucleatum By Pcr Methods And

; TITLE OF INVENTION: For Detection

; FILE REFERENCE: 246312US0

; CURRENT APPLICATION NUMBER: US/10/729,961

; CURRENT FILING DATE: 2003-12-09

; PRIOR APPLICATION NUMBER: JP 2002-358698

; PRIOR FILING DATE: 2002-12-10

; PRIOR APPLICATION NUMBER: JP 2003-403715

; PRIOR FILING DATE: 2003-12-02

; NUMBER OF SEQ ID NOS: 17

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 4

; LENGTH: 1502

; TYPE: DNA

; ORGANISM: Fusobacterium nucleatum

; US-10-729-961-4

Query Match 72.7%; Score 16; DB 7; Length 1502;

Best Local Similarity 100.0%; Pred.No. 0.47; Mismatches 0; Indels 0; Gaps 0;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 CCCGAGAACGTATTCA 22

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Db 1367 CCCGAGAACGTATTCA 1352

RESULT 2

US-10-729-961-1/c

; Sequence 1, Application US/10729961

; GENERAL INFORMATION:

; APPLICANT: IWASE, Tadayuki

; APPLICANT: ITANO, Morihide

; APPLICANT: YANO, Yoshitaka

; TITLE OF INVENTION: Primers For Detecting Fusobacterium Nucleatum By Pcr Methods And

; TITLE OF INVENTION: For Detection

; FILE REFERENCE: 246312US0

; CURRENT APPLICATION NUMBER: US/10/729,961

; CURRENT FILING DATE: 2003-12-09

; PRIOR APPLICATION NUMBER: JP 2002-358698

; PRIOR FILING DATE: 2002-12-10

;; PRIOR APPLICATION NUMBER: JP 2003-403715
;; PRIOR FILING DATE: 2003-12-02
;; NUMBER OF SEQ ID NOS: 17
;; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 1661
; TYPE: DNA
; ORGANISM: Fusobacterium nucleatum
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1650)..(1650)
; OTHER INFORMATION: n stands for any base
US-10-729-961-1

Query Match 72.7%; Score 16; DB 7; Length 1661;
Best Local Similarity 100.0%; Pred. No. 0.47;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCCGAGAACGTATTCA 22
Db 1367 CCCGAGAACGTATTCA 1352

RESULT 3
US-09-404-520B-5583/c
; Sequence 5583, Application US/09404520B
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Timberlake, William E.
; APPLICANT: McIninch, James
; APPLICANT: Yu, Jaehyuk
; APPLICANT: Ghodssi, Azita
; TITLE OF INVENTION: Emericella nidulans Genome Sequence and Uses Thereof
; FILE REFERENCE: 38-10(15498)A
; CURRENT APPLICATION NUMBER: US/09/404,520B
; CURRENT FILING DATE: 1999-09-23
; NUMBER OF SEQ ID NOS: 44345
; SEQ ID NO 5583
; LENGTH: 8004
; TYPE: DNA
; ORGANISM: Emericella nidulans
US-09-404-520B-5583

Query Match 72.7%; Score 16; DB 5; Length 8004;
Best Local Similarity 100.0%; Pred. No. 0.51;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCCGAGAACGTATTCA 22
Db 771 CCCGAGAACGTATTCA 756

RESULT 4
US-10-896-891-531/c
; Sequence 531, Application US/10896891
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH CANCER, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL000788
; CURRENT APPLICATION NUMBER: US/10/896,891
; CURRENT FILING DATE: 2004-07-23
; PRIOR FILING DATE: 2004-07-23
; NUMBER OF SEQ ID NOS: 12618
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 531
; LENGTH: 281443
; TYPE: DNA
; ORGANISM: Human
US-10-896-891-531

Query Match 68.2%; Score 15; DB 6; Length 281443;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 6 GCCCGAGAACGTATT 20
Db 240133 GCCCGAGAACGTATT 240119

RESULT 5
US-10-100-683-3306
; Sequence 3306, Application US/10100683
; GENERAL INFORMATION:
; APPLICANT: Rosen, et al.
; TITLE OF INVENTION: Human Secreted Proteins
; FILE REFERENCE: PS900
; CURRENT APPLICATION NUMBER: US/10/100,683
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: US 60/040,162
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: US 60/043,576
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,601
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,845
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,580
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,599
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,664
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,314
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,632
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,892
; PRIOR FILING DATE: 1997-08-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13468
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3306
; LENGTH: 1071
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-100-683-3306

Query Match 63.6%; Score 14; DB 7; Length 1071;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CAAGGCCCGAGAAC 15
Db 103 CAAGGCCCGAGAAC 116

RESULT 6
US-09-404-520B-27485
; Sequence 27485, Application US/09404520B
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Timberlake, William E.
; APPLICANT: McIninch, James
; APPLICANT: Yu, Jaehyuk
; APPLICANT: Ghodssi, Azita
; TITLE OF INVENTION: Emericella nidulans Genome Sequence and Uses Thereof
; FILE REFERENCE: 38-10(15498)A
; CURRENT APPLICATION NUMBER: US/09/404,520B
; CURRENT FILING DATE: 1999-09-23
; NUMBER OF SEQ ID NOS: 44345
; SEQ ID NO 27485
; LENGTH: 1080


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; TYPE: DNA
; ORGANISM: Emericella nidulans
US-09-404-520B-27485

Query Match      63.6%; Score 14; DB 5; Length 1080;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      9 CGAGAACGTATTCA 22
      |||||
Db      904 CGAGAACGTATTCA 917

RESULT 7
US-09-248-796A-3573
; Sequence 3573, Application US/09248796A
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; PRIOR FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 3573
; LENGTH: 1215
; TYPE: DNA
; ORGANISM: Candida albicans
US-09-248-796A-3573

Query Match      63.6%; Score 14; DB 5; Length 1215;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACAAGGCCCGAGAA 14
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Db      1151 ACAAGGCCCGAGAA 1164

RESULT 8
US-10-767-701-12478
; Sequence 12478, Application US/10767701
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5353)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 12478
; LENGTH: 1271
; TYPE: DNA
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-CLUS1265_1
US-10-767-701-12478

Query Match      63.6%; Score 14; DB 7; Length 1271;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      6 GCCCGAGAACGTAT 19
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Db      832 GCCCGAGAACGTAT 845
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RESULT 9
US-09-404-520B-9481
; Sequence 9481, Application US/09404520B
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Timberlake, William E.
; APPLICANT: McIninch, James
; APPLICANT: Yu, Jaehyuk
; APPLICANT: Ghodssi, Azita
; TITLE OF INVENTION: Emericella nidulans Genome Sequence and Uses Thereof
; FILE REFERENCE: 38-10(15498)A
; CURRENT APPLICATION NUMBER: US/09/404,520B
; CURRENT FILING DATE: 1999-09-23
; NUMBER OF SEQ ID NOS: 44345
; SEQ ID NO 9481
; LENGTH: 1379
; TYPE: DNA
; ORGANISM: Emericella nidulans
US-09-404-520B-9481
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Query Match      63.6%; Score 14; DB 5; Length 1379;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 9 CGAGAACGTATTCA 22

|||||

Db 1096 CGAGAACGTATTCA 1109

RESULT 10

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; Sequence 20466, Application US/09404520B
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Timberlake, William E.
; APPLICANT: McIninch, James
; APPLICANT: Yu, Jaehyuk
; APPLICANT: Ghodssi, Azita
; TITLE OF INVENTION: Emericella nidulans Genome Sequence and Uses Thereof
; FILE REFERENCE: 38-10(15498)A
; CURRENT APPLICATION NUMBER: US/09/404,520B
; CURRENT FILING DATE: 1999-09-23
; NUMBER OF SEQ ID NOS: 44345
; SEQ ID NO 20466
; LENGTH: 1389
; TYPE: DNA
; ORGANISM: Emericella nidulans
US-09-404-520B-20466
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Query Match      63.6%; Score 14; DB 5; Length 1389;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 4 AGGCCCGAGAACGT 17

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Db 365 AGGCCCGAGAACGT 378

RESULT 11

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US-10-425-115-166711
; Sequence 166711, Application US/10425115
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
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; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 166711
; LENGTH: 1553
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_83619C.1
US-10-425-115-166711

Query Match 63.6%; Score 14; DB 6; Length 1553;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 AGGCCCGAGAACGT 17
Db 1207 AGGCCCGAGAACGT 1220

RESULT 12

US-09-404-520B-14910
; Sequence 14910, Application US/09404520B
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Timberlake, William E.
; APPLICANT: McIninch, James
; APPLICANT: Yu, Jaehyuk
; APPLICANT: Ghodssi, Azita
; TITLE OF INVENTION: Emericella nidulans Genome Sequence and Uses Thereof
; FILE REFERENCE: 38-10(15498)A
; CURRENT APPLICATION NUMBER: US/09/404,520B
; CURRENT FILING DATE: 1999-09-23
; NUMBER OF SEQ ID NOS: 44345
; SEQ ID NO 14910
; LENGTH: 1866
; TYPE: DNA
; ORGANISM: Emericella nidulans
US-09-404-520B-14910

Query Match 63.6%; Score 14; DB 5; Length 1866;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 AGGCCCGAGAACGT 17
Db 424 AGGCCCGAGAACGT 437

RESULT 13

US-10-100-683-2841/c
; Sequence 2841, Application US/10100683
; GENERAL INFORMATION:
; APPLICANT: Rosen, et al.
; TITLE OF INVENTION: Human Secreted Proteins
; FILE REFERENCE: PS900
; CURRENT APPLICATION NUMBER: US/10/100,683
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: US 60/040,162
; PRIOR FILING DATE: 1997-03-07
; PRIOR APPLICATION NUMBER: US 60/043,576
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,601
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,845
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,580
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 60/047,599
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,664
; PRIOR FILING DATE: 1997-08-22
; PRIOR APPLICATION NUMBER: US 60/043,314
; PRIOR FILING DATE: 1997-04-11

; PRIOR APPLICATION NUMBER: US 60/047,632
; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: US 60/056,892
; PRIOR FILING DATE: 1997-08-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13468
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2841
; LENGTH: 1959
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-100-683-2841

Query Match 63.6%; Score 14; DB 7; Length 1959;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GGCCCGAGAACGTA 18
Db 1223 GGCCCGAGAACGTA 1210

RESULT 14

US-10-745-444-764/c
; Sequence 764, Application US/10745444
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; APPLICANT: Au-Young, Janice
; APPLICANT: Guegler, Karl J.
; APPLICANT: Baughn, Mariah R.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: DETECTING EXPRESSION OF GENES ENCODING SECRETED PROTEINS
; FILE REFERENCE: PA-0017 US
; CURRENT APPLICATION NUMBER: US/10/745,444
; CURRENT FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 809
; SOFTWARE: PERL Program
; SEQ ID NO 764
; LENGTH: 2307
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No: 1997168CT1
; PUBLICATION INFORMATION:
US-10-745-444-764

Query Match 63.6%; Score 14; DB 7; Length 2307;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GGCCCGAGAACGTA 18
Db 236 GGCCCGAGAACGTA 223

RESULT 15

US-10-501-933-4270
; Sequence 4270, Application US/10501933
; GENERAL INFORMATION:
; APPLICANT: Mendrick, Donna
; APPLICANT: Porter, Mark
; APPLICANT: Johnson, Kory
; APPLICANT: Castle, Arthur
; APPLICANT: Elashoff, Michael
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Molecular Hepatotoxicology Modeling
; FILE REFERENCE: 44921-5038-01-WO
; CURRENT APPLICATION NUMBER: US/10/501,933
; CURRENT FILING DATE: 2004-07-20
; PRIOR APPLICATION NUMBER: US 60/222,040
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 60/222,880

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; PRIOR FILING DATE: 2000-11-02
; PRIOR APPLICATION NUMBER: US 60/290,029
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/290,645
; PRIOR FILING DATE: 2001-05-15
; PRIOR APPLICATION NUMBER: US 60/292,336
; PRIOR FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: US 60/295,798
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/297,457
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,884
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: US 60/303,459
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/331,273
; PRIOR FILING DATE: 2001-11-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 4295
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4270
; LENGTH: 2783
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. X83231
US-10-501-933-4270

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Search completed: August 4, 2004, 11:43:46
Job time : 220.94 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 06:32:11; Search time 2008.35 Seconds
(without alignments)
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Title: US-09-940-860-3

Perfect score: 22

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Gapop 60.0, Gapext 60.0

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	22	100.0	336	1	PCT-US03-03202-2
4	22	100.0	336	1	PCT-US03-03202A-2
5	22	100.0	336	35	US-09-860-200D-2
6	22	100.0	368	3	US-07-923-871B-36
7	22	100.0	370	3	US-07-923-871B-35
8	22	100.0	498	3	US-07-923-871B-1
9	22	100.0	505	3	US-07-923-871-1
10	22	100.0	505	3	US-07-923-871A-1
11	22	100.0	1014	44	US-10-061-071-94
12	22	100.0	1377	23	US-09-548-998A-2
13	22	100.0	1377	23	US-09-548-998A-4
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18	22	100.0	1377	23	US-09-548-998C-5
19	22	100.0	1377	23	US-09-548-998C-6
20	22	100.0	1377	23	US-09-548-998E-2
21	22	100.0	1377	23	US-09-548-998E-4
22	22	100.0	1377	23	US-09-548-998E-5
23	22	100.0	1377	23	US-09-548-998E-6
24	22	100.0	1377	44	US-10-061-071-2
25	22	100.0	1377	44	US-10-061-071-4
26	22	100.0	1377	44	US-10-061-071-5
27	22	100.0	1377	44	US-10-061-071-6
28	22	100.0	1378	23	US-09-548-998A-3
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30	22	100.0	1378	23	US-09-548-998E-3
31	22	100.0	1378	44	US-10-061-071-3
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33	22	100.0	1443	23	US-09-548-998C-7
34	22	100.0	1443	23	US-09-548-998E-7
35	22	100.0	1443	44	US-10-061-071-7
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37	22	100.0	1451	32	US-09-786-253-5
38	22	100.0	116217	1	PCT-US98-12764-2
39	22	100.0	116217	34	US-09-830-228-2
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<p>OTHER INFORMATION: synthetic amplification primer</p> <p>US-09-940-860-3</p> <p>Query Match 100.0%; Score 22; DB 39; Length 22;</p> <p>Best Local Similarity 100.0%; Pred. No. 0.0095;</p> <p>Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;</p> <p>QY 1 ACAAGGCCCGAGAACGTATTCA 22</p> <p>DB 1 ACAAGGCCCGAGAACGTATTCA 22</p>	<p>RESULT 2</p> <p>PCT-US01-16030A-2/c</p> <p>Sequence 2, Appli</p> <p>GENERAL INFORMATION:</p> <p>APPLICANT: University of Maryland Biotechnology Institute</p> <p>APPLICANT: Sowers, Kevin R.</p> <p>FILE OF INVENTION: May, Harold D.</p> <p>TITLE OF INVENTION: Compositions and Methods for Microbial Dechlorination of Polychlorinated Biphenyl Compounds</p> <p>FILE REFERENCE: 4115-149 PCT</p> <p>CURRENT APPLICATION NUMBER: PCT/US01/16030A</p> <p>CURRENT FILING DATE: 2001-05-18</p> <p>PRIOR APPLICATION NUMBER: US 60/205,818</p> <p>PRIOR FILING DATE: 2000-05-19</p> <p>PRIOR APPLICATION NUMBER: US 60/266,650</p> <p>PRIOR FILING DATE: 2001-02-06</p> <p>NUMBER OF SEQ ID NOS: 3</p> <p>SOFTWARE: PatentIn version 3.1</p> <p>SEQ ID NO 2</p> <p>LENGTH: 336</p> <p>TYPE: DNA</p> <p>ORGANISM: Artificial Sequence</p> <p>FEATURE:</p> <p>OTHER INFORMATION: Synthetic construct</p> <p>PCT-US01-16030A-2</p>	<p>Query Match 100.0%; Score 22; DB 1; Length 336;</p> <p>Best Local Similarity 100.0%; Pred. No. 0.0076;</p> <p>Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;</p> <p>QY 1 ACAAGGCCCGAGAACGTATTCA 22</p> <p>DB 323 ACAAGGCCCGAGAACGTATTCA 302</p>
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<p>RESULT 3</p> <p>PCT-US03-03202-2/c</p> <p>Sequence 2, Appli</p> <p>GENERAL INFORMATION:</p> <p>APPLICANT: University of Maryland Biotechnology Institute</p> <p>APPLICANT: Stimulation of Microbial Dechlorination of Polychlorinated Biphenyl Compounds</p> <p>FILE OF INVENTION: Halogenated Ethenes</p> <p>FILE REFERENCE: 4115-176 PCT</p> <p>CURRENT APPLICATION NUMBER: PCT/US03/03202</p> <p>CURRENT FILING DATE: 2003-02-03</p> <p>PRIOR APPLICATION NUMBER: 60/353,134</p> <p>PRIOR FILING DATE: 2002-02-01</p> <p>NUMBER OF SEQ ID NOS: 3</p> <p>SOFTWARE: PatentIn version 3.1</p> <p>SEQ ID NO 2</p> <p>LENGTH: 336</p> <p>TYPE: DNA</p> <p>ORGANISM: Artificial Sequence</p> <p>FEATURE:</p> <p>OTHER INFORMATION: Synthetic Construct</p> <p>PCT-US03-03202-2</p>	<p>Query Match 100.0%; Score 22; DB 1; Length 336;</p> <p>Best Local Similarity 100.0%; Pred. No. 0.0076;</p> <p>Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;</p>
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Db 323 ACAAGGCCCGAGAACGTATTC A 302

RESULT 4

PCT-US03-03202A-2/c
; Sequence 2, Application PC/TUS0303202A

; GENERAL INFORMATION:

; APPLICANT: University of Maryland Biotechnology Institute

; TITLE OF INVENTION: Stimulation of Microbial Dechlorination of Polychlorinated Biphenyls

; FILE REFERENCE: 4115-176 PCT

; CURRENT APPLICATION NUMBER: PCT/US03/03202A

; PRIOR FILING DATE: 2003-02-03

; PRIOR APPLICATION NUMBER: 60/353,134

; PRIOR FILING DATE: 2002-02-01

; NUMBER OF SEQ ID NOS: 3

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 2

; LENGTH: 336

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Construct

PCT-US03-03202A-2

Query Match 100.0%; Score 22; DB 1; Length 336;

Best Local Similarity 100.0%; Pred. No. 0.0076;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGAACGTATTC A 22
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Db 323 ACAAGGCCCGAGAACGTATTC A 302

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US-09-860-200D-2/c

; Sequence 2, Application US/09860200D

; GENERAL INFORMATION:

; APPLICANT: Kevin, Bowers R.

; APPLICANT: Harold, May D.

; TITLE OF INVENTION: Compositions and Methods for Microbial Dechlorination of

; TITLE OF INVENTION: Polychlorinated Biphenyl Compounds

; FILE REFERENCE: 4115-149

; CURRENT APPLICATION NUMBER: US/09/860,200D

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: US 60/205,818

; PRIOR FILING DATE: 2000-05-19

; PRIOR APPLICATION NUMBER: US 60/266,650

; PRIOR FILING DATE: 2001-02-06

; NUMBER OF SEQ ID NOS: 3

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 2

; LENGTH: 336

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Construct

US-09-860-200D-2

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Best Local Similarity 100.0%; Pred. No. 0.0076;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 323 ACAAGGCCCGAGAACGTATTC A 302

RESULT 6

US-07-923-871B-36/c

; Sequence 36, Application US/07923871B

; GENERAL INFORMATION:

; APPLICANT: White Ph.D, Thomas J.

; APPLICANT: Dodge, Deborah E.

; TITLE OF INVENTION: Method for Diagnosis of Lyme Disease

; NUMBER OF SEQUENCES: 36

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Hoffmann-La Roche Inc.

; STREET: 340 Kingsland Street

; CITY: Nutley

; STATE: NJ

; COUNTRY: USA

; ZIP: 07110-1199

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA: US/07/923,871B

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 489,676

; FILING DATE: 07-MAR-1990

; ATTORNEY/AGENT INFORMATION:

; NAME: Petry, Douglas A.

; REGISTRATION NUMBER: 35,321

; REFERENCE/DOCKET NUMBER: 8697

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (510) 814-2974

; TELEFAX: (510) 814-2977

; TELEX:

; INFORMATION FOR SEQ ID NO: 36:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 368 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

US-07-923-871B-36

Query Match 100.0%; Score 22; DB 3; Length 368;

Best Local Similarity 100.0%; Pred. No. 0.0076;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGAACGTATTC A 22
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Db 273 ACAAGGCCCGAGAACGTATTC A 252

RESULT 7

US-07-923-871B-35/c

; Sequence 35, Application US/07923871B

; GENERAL INFORMATION:

; APPLICANT: White Ph.D, Thomas J.

; APPLICANT: Dodge, Deborah E.

; TITLE OF INVENTION: Method for Diagnosis of Lyme Disease

; NUMBER OF SEQUENCES: 36

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Hoffmann-La Roche Inc.

; STREET: 340 Kingsland Street

; CITY: Nutley

; STATE: NJ

; COUNTRY: USA

; ZIP: 07110-1199

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07/923,871B

; FILING DATE:

CLASSIFICATION: 435
PRIOR APPLICATION DATA: US 489,676
APPLICATION NUMBER: US 489,676
FILING DATE: 07-MAR-1990
ATTORNEY/AGENT INFORMATION:
NAME: Petry, Douglas A.
REGISTRATION NUMBER: 35,321
REFERENCE/DOCKET NUMBER: 8697
TELEPHONE: (510) 814-2974
TELEFAX: (510) 814-2977
TELEX:
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 370 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-07-923-871B-35

Query Match 100.0%; Score 22; DB 3; Length 370;
Best Local Similarity 100.0%; Pred. No. 0.0076;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGAACGTATTCA 22
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DB 275 ACAAGGCCCGAGAACGTATTCA 254

RESULT 8

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GENERAL INFORMATION:
APPLICANT: White Ph.D, Thomas J.
APPLICANT: Dodge, Deborah E.
TITLE OF INVENTION: Method for Diagnosis of Lyme Disease
NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hoffmann-La Roche Inc.
STREET: 340 Kingsland Street
CITY: Nutley
STATE: NJ
COUNTRY: USA
ZIP: 07110-1199
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COMPUTER: IBM PC compatible
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SOFTWARE: PatentIn Release #1.0, Version #1.25
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FILING DATE:
CLASSIFICATION: 435

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FILING DATE: 07-MAR-1990
ATTORNEY/AGENT INFORMATION:
NAME: Petry, Douglas A.
REGISTRATION NUMBER: 35,321
REFERENCE/DOCKET NUMBER: 8697
TELEPHONE: (510) 814-2974
TELEFAX: (510) 814-2977
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INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 498 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO

ANTI-SENSE: NO
FEATURE:
NAME/KEY: unsure
LOCATION: complement (35..36)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (41)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (67)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (164..165)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (167)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (169)
US-07-923-871B-1

Query Match 100.0%; Score 22; DB 3; Length 498;
Best Local Similarity 100.0%; Pred. No. 0.0074;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGAACGTATTCA 22
|||||
DB 396 ACAAGGCCCGAGAACGTATTCA 375

RESULT 9

US-07-923-871-1/c
Sequence 1, Application US/07923871
GENERAL INFORMATION:
APPLICANT: White Ph.D, Thomas J.
APPLICANT: Dodge, Deborah E.
TITLE OF INVENTION: Method for Diagnosis of Lyme Disease
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hoffmann-La Roche Inc.
STREET: 340 Kingsland Street
CITY: Nutley
STATE: NJ
COUNTRY: USA
ZIP: 07110-1199
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/923,871
FILING DATE:
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 489,676
FILING DATE: 07-MAR-1990
ATTORNEY/AGENT INFORMATION:
NAME: Sias, Stacey R.
REGISTRATION NUMBER: 32,630
REFERENCE/DOCKET NUMBER: 8697
TELEPHONE: (510) 814-2863
TELEFAX: (510) 522-1285
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 505 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO

ANTI-SENSE: NO
FEATURE:
NAME/KEY: unsure
LOCATION: complement (35..36)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (41)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (67)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (164..165)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (167)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (169)
US-07-923-871-1

Query Match 100.0%; Score 22; DB 3; Length 505;
Best Local Similarity 100.0%; Pred. No. 0.0074;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGACGTATTCA 22
DB 396 ACAAGGCCCGAGACGTATTCA 375

RESULT 10

US-07-923-871A-1/c
Sequence 1, Application US/07923871A
GENERAL INFORMATION:
APPLICANT: White Ph.D, Thomas J.
APPLICANT: Dodge, Deborah E.
TITLE OF INVENTION: Method for Diagnosis of Lyme Disease
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hoffmann-La Roche Inc.
STREET: 340 Kingsland Street
CITY: Nutley
STATE: NJ
COUNTRY: USA
ZIP: 07110-1199
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/923,871A
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 489,676
FILING DATE: 07-MAR-1990
ATTORNEY/AGENT INFORMATION:
NAME: Sias, Stacey R.
REGISTRATION NUMBER: 32,630
REFERENCE/DOCKET NUMBER: 8697
TELEPHONE: (510) 814-2863
TELEFAX: (510) 522-1285
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 505 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO

ANTI-SENSE: NO
FEATURE:
NAME/KEY: unsure
LOCATION: complement (35..36)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (41)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (67)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (164..165)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (167)
FEATURE:
NAME/KEY: unsure
LOCATION: complement (169)
US-07-923-871A-1

Query Match 100.0%; Score 22; DB 3; Length 505;
Best Local Similarity 100.0%; Pred. No. 0.0074;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGACGTATTCA 22
DB 396 ACAAGGCCCGAGACGTATTCA 375

RESULT 11

US-10-061-071-94/c
Sequence 94, Application US/10061071
GENERAL INFORMATION:
APPLICANT: E.I. DUPONT DE NEMOURS & COMPANY
APPLICANT: HENDRICKSON, EDWIN
TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
TITLE OF INVENTION: BACTERIA
FILE REFERENCE: BC1002 US CIP
CURRENT APPLICATION NUMBER: US/10/061,071
CURRENT FILING DATE: 2002-01-29
PRIOR APPLICATION NUMBER: US 60/129,511
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: 60/129,511
PRIOR FILING DATE: 1999-04-15
NUMBER OF SEQ ID NOS: 103
SOFTWARE: Microsoft Office 97
SEQ ID NO 94
LENGTH: 1014
TYPE: DNA
ORGANISM: Dehalococcoides related Family A Group
US-10-061-071-94

Query Match 100.0%; Score 22; DB 44; Length 1014;
Best Local Similarity 100.0%; Pred. No. 0.007;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGACGTATTCA 22
DB 1004 ACAAGGCCCGAGACGTATTCA 983

RESULT 12

US-09-548-998A-2/c
Sequence 2, Application US/09548998A
GENERAL INFORMATION:
APPLICANT: Ebersole, Richard C.
APPLICANT: Hendrickson, Edwin
TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
TITLE OF INVENTION: BACTERIA
FILE REFERENCE: BC1002 US NA
CURRENT APPLICATION NUMBER: US/09/548,998A
CURRENT FILING DATE: 2001-09-10

```

; PRIOR APPLICATION NUMBER: 60/129,511
; PRIOR FILING DATE: 1999-04-15
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 1
; SEQ ID NO 2
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Dehalococcoides ethenogen
US-09-548-998A-2

```

```
Query Match      100.0%; Score 22; DB 23; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0.0068;
Matches 22: Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1 ACAAGGCCCGAGAACGTATTCA 22
|||
Db 1321 ACAAGGCCCGAGAACGTATTCA 1300

RESULT 13

```

US-09-548-998A-4/c
; Sequence 4, Application US/09548998A
; GENERAL INFORMATION:
; APPLICANT: Ebersole, Richard C.
; APPLICANT: Hendrickson, Edwin
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
; TITLE OF INVENTION: BACTERIA
; FILE REFERENCE: BC1002 US NA
; CURRENT APPLICATION NUMBER: US/09548, 998A
; CURRENT FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/129,511
; PRIOR FILING DATE: 1999-04-15
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 4
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Dehalococcoides ethenogenes
US-09-548-998A-4

```

```
Query Match      100.0%; Score 22; DB 23; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0.0068;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 ACAAGCCCGAGAACGTATTC 22
1321 ACAAGCCCGAGAACGTATTC 1300

Db

```

RESULT 14
US-09-548-998A-5/c
; Sequence 5, Application US/09548998A
; GENERAL INFORMATION:
; APPLICANT: Ebersole, Richard C.
; APPLICANT: Hendrickson, Edwin
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
; TITLE OF INVENTION: BACTERIA
; FILE REFERENCE: BC1002 US NA
; CURRENT APPLICATION NUMBER: US/09/548, 998A
; CURRENT FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/129,511
; PRIOR FILING DATE: 1999-04-15
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 5
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Dehalococcoides ethenogenes
US-09-548-998A-5

```

```
Query Match      100.0%; Score 22; DB 23; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0.0068;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Caps 0;
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Qy 1 ACAAGGCCCGAGAACGTATTCA 22
1321 ACAAGGCCCGAGAACGTATTCA 1300
Db

RESULT 15

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US-09-548-998A-6/G
/
/ Sequence 6 Application US/09548998A
/ GENERAL INFORMATION:
/
/ APPLICANT: Ebersole, Richard C.
/ APPLICANT: Hendrickson, Edwin
/ TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
/ TITLE OF INVENTION: BACTERIA
/
/ FILE REFERENCE: BC1002 US NA
/ CURRENT APPLICATION NUMBER: US/09/548,998A
/
/ CURRENT FILING DATE: 2001-09-10
/ PRIOR APPLICATION NUMBER: 60/129,511
/ PRIOR FILING DATE: 1999-04-15
/
/ NUMBER OF SEQ ID NOS: 60
/ SOFTWARE: Microsoft Office 97
/ SEQ ID NO 6
/
/ LENGTH: 1377
/
/ TYPE: DNA
/ ORGANISM: Dehalococcoides ethenogenes
US-09-548-998A-6

```

```
Query Match      100.0%; Score 22; DB 23; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0.0068;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 ACAAGGCCCGAGAACGTATTCA 22
|||
Db 1321 ACAAGGCCCGAGAACGTATTCA 1300

Search completed: August 4, 2004, 11:29:58
Job time : 2012.36 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 07:44:29 ; Search time 199.06 Seconds
(without alignments)
541.892 Million cell updates/sec

Title: US-09-940-860-3

Perfect score: 22
Sequence: 1 acaagggccgagacgtattca 22

Scoring table: OLIGO NUC
Gapop 60.0 , Gapext 60.0

Searched: 3222919 seqs, 2451570024 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6445838

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA:
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2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:
3: /cgn2_6/ptodata/2/pubpna/US05_NEW_PUB.seq:
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:
12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:
13: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:
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15: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:
16: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:
17: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:
18: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:
19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	22	100.0	22	11	US-09-940-860-3
2	22	100.0	336	10	US-09-860-200D-2
3	22	100.0	1014	15	US-10-061-071-94
4	22	100.0	1377	15	US-10-061-071-2
5	22	100.0	1377	15	US-10-061-071-4
6	22	100.0	1377	15	US-10-061-071-5
7	22	100.0	1377	15	US-10-061-071-6
8	22	100.0	1378	15	US-10-061-071-3
9	22	100.0	1443	15	US-10-061-071-7
10	22	100.0	1230025	16	US-10-289-762-1
11	16	72.7	244	17	US-10-391-249-16
12	16	72.7	354	17	US-10-391-249-17
13	16	72.7	354	17	US-10-391-249-18
14	16	72.7	683	14	US-10-053-078-1

c 15	72.7	683	14	US-10-053-078-2	Sequence 2, Appli
c 16	72.7	1385	15	US-10-061-071-95	Sequence 95, Appli
c 17	72.7	105184	10	US-09-847-513A-1	Sequence 1, Appli
c 18	72.7	580073	15	US-10-205-220-1	Sequence 1, Appli
c 19	68.2	238484	13	US-10-087-192-544	Sequence 544, App
20	63.6	376	14	US-10-040-739-677	Sequence 677, App
21	63.6	417	16	US-10-393-840-230	Sequence 230, App
22	63.6	450	16	US-10-393-840-229	Sequence 229, App
23	63.6	457	10	US-09-918-995-32220	Sequence 32220, A
24	63.6	460	10	US-09-918-995-26732	Sequence 26732, A
25	63.6	472	15	US-10-066-543-2939	Sequence 2939, Ap
26	63.6	506	16	US-10-393-840-227	Sequence 227, App
27	63.6	511	10	US-09-918-995-38009	Sequence 38009, A
28	63.6	942	13	US-09-942-025-8	Sequence 8, Appli
c 29	63.6	1032	9	US-09-974-300-2328	Sequence 2328, Ap
30	63.6	1071	10	US-09-933-767-118	Sequence 118, App
31	63.6	1071	13	US-10-004-860-118	Sequence 118, App
32	63.6	1071	15	US-10-023-282-118	Sequence 118, App
33	63.6	1443	13	US-10-425-114-30504	Sequence 30504, A
34	63.6	1602	16	US-10-369-493-40891	Sequence 40891, A
35	63.6	5469	9	US-09-764-877-4000	Sequence 4000, Ap
36	63.6	5469	10	US-09-764-891-9371	Sequence 9371, Ap
37	63.6	5469	15	US-10-205-428-817	Sequence 817, App
38	63.6	5469	16	US-10-242-515-4000	Sequence 4000, Ap
39	63.6	9453	9	US-09-764-877-3999	Sequence 3999, Ap
40	63.6	9453	10	US-09-764-891-9370	Sequence 9370, Ap
41	63.6	9453	15	US-10-205-428-816	Sequence 816, App
42	63.6	9453	16	US-10-242-515-3999	Sequence 3999, Ap
c 43	63.6	35178	15	US-10-017-161-739	Sequence 739, App
44	63.6	46675	13	US-10-087-192-1255	Sequence 1255, Ap
c 45	63.6	67311	13	US-09-942-025-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-09-940-860-3
; Sequence 3, Application US/09940860
; Publication No. US2004000555A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, Richard
; TITLE OF INVENTION: MOLECULAR DIAGNOSIS OF BACTEREMIA
; FILE REFERENCE: 01107.00185
; CURRENT APPLICATION NUMBER: US/09/940,860
; CURRENT FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/229,376
; PRIOR FILING DATE: 2000-08-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic amplification primer
US-09-940-860-3

Query Match 100.0%; Score 22; DB 11; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.00054;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCGAGAACGTATTCA 22
|||||
Db 1 ACAAGGCCGAGAACGTATTCA 22

RESULT 2
US-09-860-200D-2/c
; Sequence 2, Application US/09860200D
; Publication No. US20030134408A1
; GENERAL INFORMATION:

; APPLICANT: Kevin, Bowers R.
 ; APPLICANT: Harold, May D.
 ; TITLE OF INVENTION: Compositions and Methods for Microbial Dechlorination of
 ; TITLE OF INVENTION: Polychlorinated Biphenyl Compounds
 ; FILE REFERENCE: 4115-149
 ; CURRENT APPLICATION NUMBER: US/09/860,200D
 ; CURRENT FILING DATE: 2003-02-20
 ; PRIOR APPLICATION NUMBER: US 60/205,818
 ; PRIOR FILING DATE: 2000-05-19
 ; PRIOR APPLICATION NUMBER: US 60/266,650
 ; PRIOR FILING DATE: 2001-02-06
 ; NUMBER OF SEQ ID NOS: 3
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 2
 ; LENGTH: 336
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Construct
 US-09-860-200D-2

Query Match 100.0%; Score 22; DB 10; Length 336;
 Best Local Similarity 100.0%; Pred. No. 0.00047;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAAGGCCCGAGACGTATTCA 22
 Db 323 ACAAGGCCCGAGACGTATTCA 302

RESULT 3
 US-10-061-071-94/c
 ; Sequence 94, Application US/10061071
 ; Publication No. US20030077601A1
 ; GENERAL INFORMATION:
 ; APPLICANT: E.I. DUPONT DE NEMOURS & COMPANY
 ; APPLICANT: HENDRICKSON, EDWIN
 ; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
 ; TITLE OF INVENTION: BACTERIA
 ; FILE REFERENCE: BC1002 US CIP
 ; CURRENT APPLICATION NUMBER: US/10/061,071
 ; CURRENT FILING DATE: 2002-01-29
 ; PRIOR APPLICATION NUMBER: US 60/129,511
 ; PRIOR FILING DATE: 1999-04-15
 ; PRIOR APPLICATION NUMBER: 60/129,511
 ; PRIOR FILING DATE: 1999-04-15
 ; NUMBER OF SEQ ID NOS: 103
 ; SOFTWARE: Microsoft Office 97
 ; SEQ ID NO 94
 ; LENGTH: 1014
 ; TYPE: DNA
 ; ORGANISM: Dehalococcoides related Family A Group
 US-10-061-071-94

Query Match 100.0%; Score 22; DB 15; Length 1014;
 Best Local Similarity 100.0%; Pred. No. 0.00045;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAAGGCCCGAGACGTATTCA 22
 Db 1004 ACAAGGCCCGAGACGTATTCA 983

RESULT 4
 US-10-061-071-2/c
 ; Sequence 2, Application US/10061071
 ; Publication No. US20030077601A1
 ; GENERAL INFORMATION:
 ; APPLICANT: E.I. DUPONT DE NEMOURS & COMPANY
 ; APPLICANT: HENDRICKSON, EDWIN
 ; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
 ; TITLE OF INVENTION: BACTERIA
 ; FILE REFERENCE: BC1002 US CIP

; CURRENT APPLICATION NUMBER: US/10/061,071
 ; CURRENT FILING DATE: 2002-01-29
 ; PRIOR APPLICATION NUMBER: US 60/129,511
 ; PRIOR FILING DATE: 1999-04-15
 ; PRIOR APPLICATION NUMBER: 60/129,511
 ; PRIOR FILING DATE: 1999-04-15
 ; NUMBER OF SEQ ID NOS: 103
 ; SOFTWARE: Microsoft Office 97
 ; SEQ ID NO 2
 ; LENGTH: 1377
 ; TYPE: DNA
 ; ORGANISM: Dehalococcoides ethenogenes strain PL
 US-10-061-071-2

Query Match 100.0%; Score 22; DB 15; Length 1377;
 Best Local Similarity 100.0%; Pred. No. 0.00045;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAAGGCCCGAGACGTATTCA 22
 Db 1321 ACAAGGCCCGAGACGTATTCA 1300

RESULT 5
 US-10-061-071-4/c
 ; Sequence 4, Application US/10061071
 ; Publication No. US20030077601A1
 ; GENERAL INFORMATION:
 ; APPLICANT: E.I. DUPONT DE NEMOURS & COMPANY
 ; APPLICANT: HENDRICKSON, EDWIN
 ; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
 ; TITLE OF INVENTION: BACTERIA
 ; FILE REFERENCE: BC1002 US CIP
 ; CURRENT APPLICATION NUMBER: US/10/061,071
 ; CURRENT FILING DATE: 2002-01-29
 ; PRIOR APPLICATION NUMBER: US 60/129,511
 ; PRIOR FILING DATE: 1999-04-15
 ; PRIOR APPLICATION NUMBER: 60/129,511
 ; PRIOR FILING DATE: 1999-04-15
 ; NUMBER OF SEQ ID NOS: 103
 ; SOFTWARE: Microsoft Office 97
 ; SEQ ID NO 4
 ; LENGTH: 1377
 ; TYPE: DNA
 ; ORGANISM: Dehalococcoides ethenogenes strain DAB
 US-10-061-071-4

Query Match 100.0%; Score 22; DB 15; Length 1377;
 Best Local Similarity 100.0%; Pred. No. 0.00045;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAAGGCCCGAGACGTATTCA 22
 Db 1321 ACAAGGCCCGAGACGTATTCA 1300

RESULT 6
 US-10-061-071-5/c
 ; Sequence 5, Application US/10061071
 ; Publication No. US20030077601A1
 ; GENERAL INFORMATION:
 ; APPLICANT: E.I. DUPONT DE NEMOURS & COMPANY
 ; APPLICANT: HENDRICKSON, EDWIN
 ; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
 ; TITLE OF INVENTION: BACTERIA
 ; FILE REFERENCE: BC1002 US CIP
 ; CURRENT APPLICATION NUMBER: US/10/061,071
 ; CURRENT FILING DATE: 2002-01-29
 ; PRIOR APPLICATION NUMBER: US 60/129,511
 ; PRIOR FILING DATE: 1999-04-15
 ; PRIOR APPLICATION NUMBER: 60/129,511
 ; PRIOR FILING DATE: 1999-04-15
 ; NUMBER OF SEQ ID NOS: 103

SOFTWARE: Microsoft Office 97
; SEQ ID NO 5
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Dehalococcoides ethenogenes strain PIN
US-10-061-071-5

Query Match 100.0%; Score 22; DB 15; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0.00045;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGAACGTATTCA 22
|||||
DB 1321 ACAAGGCCCGAGAACGTATTCA 1300

RESULT 7
US-10-061-071-6/c
; Sequence 6, Application US/10061071
; Publication No. US20030077601A1
; GENERAL INFORMATION:
; APPLICANT: E.I. DUPONT DE NEMOURS & COMPANY
; APPLICANT: HENDRICKSON, EDWIN
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
; FILE REFERENCE: BCI002 US CIP
; CURRENT APPLICATION NUMBER: US/10/061,071
; CURRENT FILING DATE: 2002-01-29
; PRIOR APPLICATION NUMBER: US 60/129,511
; PRIOR FILING DATE: 1999-04-15
; PRIOR APPLICATION NUMBER: 60/129,511
; PRIOR FILING DATE: 1999-04-15
; NUMBER OF SEQ ID NOS: 103
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 6
; LENGTH: 1377
; TYPE: DNA
; ORGANISM: Dehalococcoides ethenogenes strain DLL
US-10-061-071-6

Query Match 100.0%; Score 22; DB 15; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0.00045;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGAACGTATTCA 22
|||||
DB 1321 ACAAGGCCCGAGAACGTATTCA 1300

RESULT 8
US-10-061-071-3/c
; Sequence 3, Application US/10061071
; Publication No. US20030077601A1
; GENERAL INFORMATION:
; APPLICANT: E.I. DUPONT DE NEMOURS & COMPANY
; APPLICANT: HENDRICKSON, EDWIN
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
; FILE REFERENCE: BCI002 US CIP
; CURRENT APPLICATION NUMBER: US/10/061,071
; CURRENT FILING DATE: 2002-01-29
; PRIOR APPLICATION NUMBER: US 60/129,511
; PRIOR FILING DATE: 1999-04-15
; PRIOR APPLICATION NUMBER: 60/129,511
; PRIOR FILING DATE: 1999-04-15
; NUMBER OF SEQ ID NOS: 103
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 3
; LENGTH: 1378
; TYPE: DNA
; ORGANISM: Dehalococcoides ethenogenes strain V/SFD
US-10-061-071-3

Query Match 100.0%; Score 22; DB 15; Length 1378;
Best Local Similarity 100.0%; Pred. No. 0.00045;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGAACGTATTCA 22
|||||
DB 1322 ACAAGGCCCGAGAACGTATTCA 1301

RESULT 9
US-10-061-071-7/c
; Sequence 7, Application US/10061071
; Publication No. US20030077601A1
; GENERAL INFORMATION:
; APPLICANT: E.I. DUPONT DE NEMOURS & COMPANY
; APPLICANT: HENDRICKSON, EDWIN
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
; FILE REFERENCE: BCI002 US CIP
; CURRENT APPLICATION NUMBER: US/10/061,071
; CURRENT FILING DATE: 2002-01-29
; PRIOR APPLICATION NUMBER: US 60/129,511
; PRIOR FILING DATE: 1999-04-15
; PRIOR APPLICATION NUMBER: 60/129,511
; PRIOR FILING DATE: 1999-04-15
; NUMBER OF SEQ ID NOS: 103
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 7
; LENGTH: 1443
; TYPE: DNA
; ORGANISM: Dehalococcoides ethenogenes strain 195
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1353)..(1353)
; OTHER INFORMATION: N= unknown
US-10-061-071-7

Query Match 100.0%; Score 22; DB 15; Length 1443;
Best Local Similarity 100.0%; Pred. No. 0.00045;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGAACGTATTCA 22
|||||
DB 1329 ACAAGGCCCGAGAACGTATTCA 1308

RESULT 10
US-10-289-762-1/c
; Sequence 1, Application US/10289762
; Publication No. US20040006218A1
; GENERAL INFORMATION:
; APPLICANT: Griffls, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragment;
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prev
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/10/289,762
; CURRENT FILING DATE: 2003-03-27
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1
; LENGTH: 1230025
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(15000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc feature
; LOCATION: (15001)..(30000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc_feature


```
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (585001)..(600000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (600001)..(615000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (615001)..(630000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (630001)..(645000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (645001)..(660000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (660001)..(675000)
; OTHER INFORMATION: n=a or c or g or t
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; NAME/KEY: misc feature
; LOCATION: (675001)..(690000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
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Query Match 100.0%; Score 22; DB 16; Length 1230025;

Best Local Similarity 100.0%; Pred. No. 0.00033; Indels 0; Gaps 0;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 ACAAGGCCCGAGAACGTATTCA 22
|||||
Db 1012085 ACAAGGCCCGAGAACGTATTCA 1012064
```

RESULT 11

US-10-391-249-16/c

; Sequence 16, Application US/10391249

; Publication No. US20040091935A1

; GENERAL INFORMATION:

; APPLICANT: Dosey, Stephen J.

; TITLE OF INVENTION: NEW STRAINS OF MYCOPLASMA HYORHINIS AS

; FILE REFERENCE: 07917-142001

; CURRENT APPLICATION NUMBER: US/10/391,249

; CURRENT FILING DATE: 2003-03-17

; PRIOR APPLICATION NUMBER: US 60/364,801

; PRIOR FILING DATE: 2002-03-15

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 16

; LENGTH: 244

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-10-391-249-16

Query Match 72.7%; Score 16; DB 17; Length 244;

Best Local Similarity 100.0%; Pred. No. 2.8;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 7 CCCGAGAACGTATTCA 22
|||||
Db 201 CCCGAGAACGTATTCA 186
```

RESULT 12

US-10-391-249-17/c

; Sequence 17, Application US/10391249

; Publication No. US20040091935A1

```
; GENERAL INFORMATION:
; APPLICANT: Dosey, Stephen J.
; TITLE OF INVENTION: NEW STRAINS OF MYCOPLASMA HYORHINIS AS
; FILE REFERENCE: 07917-142001
; CURRENT APPLICATION NUMBER: US/10/391,249
; CURRENT FILING DATE: 2003-03-17
; PRIOR APPLICATION NUMBER: US 60/364,801
; PRIOR FILING DATE: 2002-03-15
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 354
; TYPE: DNA
; ORGANISM: Mus musculus
; US-10-391-249-17
```

Query Match 72.7%; Score 16; DB 17; Length 354;

Best Local Similarity 100.0%; Pred. No. 2.8;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 7 CCCGAGAACGTATTCA 22
|||||
Db 299 CCCGAGAACGTATTCA 284
```

RESULT 13

US-10-391-249-18/c

; Sequence 18, Application US/10391249

; Publication No. US20040091935A1

; GENERAL INFORMATION:

; APPLICANT: Dosey, Stephen J.

; TITLE OF INVENTION: NEW STRAINS OF MYCOPLASMA HYORHINIS AS

; FILE REFERENCE: 07917-142001

; CURRENT APPLICATION NUMBER: US/10/391,249

; CURRENT FILING DATE: 2003-03-17

; PRIOR APPLICATION NUMBER: US 60/364,801

; PRIOR FILING DATE: 2002-03-15

; NUMBER OF SEQ ID NOS: 43

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 18

; LENGTH: 354

; TYPE: DNA

; ORGANISM: Sus scrofa

; US-10-391-249-18

Query Match 72.7%; Score 16; DB 17; Length 354;

Best Local Similarity 100.0%; Pred. No. 2.8;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 7 CCCGAGAACGTATTCA 22
|||||
Db 299 CCCGAGAACGTATTCA 284
```

RESULT 14

US-10-053-078-1/c

; Sequence 1, Application US/10053078

; Publication No. US20020192672A1

; GENERAL INFORMATION:

; APPLICANT: Dawson, Jacqueline E.

; APPLICANT: Anderson, Surt

; TITLE OF INVENTION: Identification of a New Ehrlichia

; FILE REFERENCE: 6395-62149

; CURRENT APPLICATION NUMBER: US/10/053,078

; CURRENT FILING DATE: 2002-01-17

; PRIOR APPLICATION NUMBER: U.S. 09/061770

; PRIOR FILING DATE: 1998-04-16

; PRIOR APPLICATION NUMBER: U.S. 07/687,526

; PRIOR FILING DATE: 1991-04-18

; PRIOR APPLICATION NUMBER: U.S. 08/147,891

```
; PRIOR FILING DATE: 1993-11-05
; PRIOR APPLICATION NUMBER: U.S. 08/394,464
; PRIOR FILING DATE: 1995-02-27
; PRIOR APPLICATION NUMBER: U.S. 08/943,464
; PRIOR FILING DATE: 1997-10-03
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 683
; TYPE: DNA
; ORGANISM: Ehrlichia chaffeensis
US-10-053-078-1
```

```
Query Match 72.7%; Score 16; DB 14; Length 683;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 CCGAGAGACGTATTCA 22
Db 579 CCGAGAGACGTATTCA 564
```

```
RESULT 15
US-10-053-078-2/c
; Sequence 2, Application US/10053078
; Publication No. US20020192672A1
; GENERAL INFORMATION:
; APPLICANT: Dawson, Jacqueline E.
; APPLICANT: Anderson, Burt
; TITLE OF INVENTION: Identification of a New Ehrlichia
; FILE REFERENCE: 6395-62149
; CURRENT APPLICATION NUMBER: US/10/053,078
; CURRENT FILING DATE: 2002-01-17
; PRIOR APPLICATION NUMBER: U.S. 09/061770
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: U.S. 07/687,526
; PRIOR FILING DATE: 1991-04-18
; PRIOR APPLICATION NUMBER: U.S. 08/147,891
; PRIOR FILING DATE: 1993-11-05
; PRIOR APPLICATION NUMBER: U.S. 08/394,464
; PRIOR FILING DATE: 1995-02-27
; PRIOR APPLICATION NUMBER: U.S. 08/943,464
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 683
; TYPE: DNA
; ORGANISM: E. Canis
US-10-053-078-2
```

```
Query Match 72.7%; Score 16; DB 14; Length 683;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 CCGAGAGACGTATTCA 22
Db 579 CCGAGAGACGTATTCA 564
```

Search completed: August 4, 2004, 11:56:26
Job time: 201.06 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 04:00:30 ; Search time 180.771 Seconds
(without alignments)
517.009 Million cell updates/sec

Title: US-09-940-860-3

Perfect score: 22

Sequence: 1 acaagcccgagacgtattcca 22

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 3373863 seqs, 2124099041 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : N_Geneseq_29Jan04.*
1: Geneseq1980s.*
2: Geneseq1990s.*
3: Geneseq2000s.*
4: Geneseq2001as.*
5: Geneseq2001bs.*
6: Geneseq2002s.*
7: Geneseq2003as.*
8: Geneseq2003bs.*
9: Geneseq2003cs.*
10: Geneseq2004s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	22	100.0	336	6 AAD37948	Aad37948 16S ribos
C 2	22	100.0	336	9 AAD58507	Aad58507 16S ribos
C 3	22	100.0	1014	8 AAD58049	Aad58049 Dehalococ
C 4	22	100.0	1284	4 AAH28398	AAH28398 Interengi
C 5	22	100.0	1284	4 AAH28396	AAH28396 Interengi
C 6	22	100.0	1284	4 AAH28401	AAH28401 Interengi
C 7	22	100.0	1284	4 AAH28397	AAH28397 Interengi
C 8	22	100.0	1284	4 AAH28399	AAH28399 Interengi
C 9	22	100.0	1335	4 AAC62240	Aac62240 A 16S rDN
C 10	22	100.0	1377	8 AAD57959	Aad57959 Dehalococ
C 11	22	100.0	1377	8 AAD57957	Aad57957 Dehalococ
C 12	22	100.0	1377	8 AAD57961	Aad57961 Dehalococ
C 13	22	100.0	1377	8 AAD57960	Aad57960 Dehalococ
C 14	22	100.0	1378	8 AAD57958	Aad57958 Dehalococ
C 15	22	100.0	1443	4 AAC62244	Aac62244 A 16S rDN
C 16	22	100.0	1443	8 AAD57962	Aad57962 Dehalococ
C 17	22	100.0	1451	4 AAF31090	Aaf31090 Bacterial
C 18	22	100.0	1451	4 AAF31089	Aaf31089 Bacterial
C 19	22	100.0	1479	6 ABS71617	Abs71617 Rickettsi
C 20	22	100.0	1515	6 ABS71618	Abs71618 Borrelia
C 21	22	100.0	110000	2 AAX20248_04	Continuation (5 of
C 22	22	100.0	110000	2 AAX91990_10	Continuation (11 o
C 23	22	100.0	116277	2 AAX20249	Aax20249 Borrelia

C 24 16 72.7 180 2 AAQ36494
C 25 16 72.7 187 2 AAQ36491 Mycoplasma
C 26 16 72.7 188 2 AAQ36493 Mycoplasma
C 27 16 72.7 189 2 AAQ36490 Mycoplasma
C 28 16 72.7 191 2 AAQ36495 Mycoplasma
C 29 16 72.7 400 2 AAQ21032 Region sp
C 30 16 72.7 444 2 AAQ21035 Region sp
C 31 16 72.7 539 2 AAQ21034 Region sp
C 32 16 72.7 539 2 AAQ15188 Ehrlichia
C 33 16 72.7 683 2 AAV43697 Ehrlichia
C 34 16 72.7 683 8 ADA18591 E. canis
C 35 16 72.7 683 8 ADA18587 E. chaffe
C 36 16 72.7 683 8 ACD26696 Ehrlichia
C 37 16 72.7 683 8 ACD26697 Ehrlichia
C 38 16 72.7 683 8 ABX93090 DNA sequ
C 39 16 72.7 683 8 ABX93091 DNA sequ
C 40 16 72.7 938 2 AAX61135 P36 ribos
C 41 16 72.7 938 2 AAX61134 P36 ribos
C 42 16 72.7 1385 8 AAD58050 Dehalococ
C 43 16 72.7 1438 7 ABZ79794 Mycoplasma
C 44 16 72.7 1445 7 ABZ79792 Mycoplasma
C 45 16 72.7 1445 7 ABZ79793 Mycoplasma

ALIGNMENTS

RESULT 1

AAD37948/c

ID AAD37948 standard; DNA; 336 BP.

AC AAD37948;

DT 10-SEP-2002 (first entry)

DE 16S ribosomal DNA (rDNA) #2.

XX Bioremediative microorganism; 16S ribosomal subunit; dechlorination; PCB;
KW polychlorinated biphenyl; biodegradation; halogenated organic waste;
XX contaminated soil; leachate; aqueous surfactant solution; ds.

OS Unidentified.

PN WO200189729-A2.

XX 29-NOV-2001.

PF 18-MAY-2001; 2001WO-US016030.

XX 19-MAY-2000; 2000US-0205818P.

XX 06-FEB-2001; 2001US-0266650P.

(UYMA-) UNIV MARYLAND BIOTECHNOLOGY INST.

Sowers KR, May HD;

WPI; 2002-114266/15.

XX Bioremediative microorganism for dechlorinating chlorinated biphenyls and
PT for bioremediation, comprises a specific 16S ribosomal subunit nucleic
acid sequence.

PS Claim 1; Fig 22; 102pp; English.

XX The present invention relates to bioremediative microorganisms comprising
CC the 16S ribosomal subunit nucleic acid sequence. The microorganisms of the
CC invention are useful for dechlorinating polychlorinated biphenyls (PCBs)
CC including anaerobic dechlorination of ortho- and double-flanked chloro
CC substituents of PCBs. They are useful for biodegradation of halogenated
CC organic waste, e.g., contaminated soil from landfill sites and river beds
CC containing PCBs and to treat leachates and aqueous surfactant solutions
CC resulting from washing the organic waste to transfer PCBs to the aqueous
CC surfactant solutions. The method of the invention is useful for

CC determining the bioremediative potential of CB-containing site, which is
 CC useful for monitoring CB-containing site. The invention also relates to
 CC compositions which are useful for bioremediation. The present sequence is
 CC a 16S ribosomal DNA (rDNA) of the invention

SQ Sequence 336 BP; 76 A; 83 C; 97 G; 80 T; 0 U; 0 Other;
 Query Match 100.0%; Score 22; DB 6; Length 336;
 Best Local Similarity 100.0%; Pred. No. 0.00072;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACAAGGCCGAGAACGTATTCA 22
 DB 323 ACAAGGCCGAGAACGTATTCA 302

RESULT 2

AAD58507/c
 ID AAD58507 standard; DNA; 336 BP.

AC AAD58507;
 DT 04-DEC-2003 (first entry)
 DE 16S ribosomal subunit DNA #2.
 KW Polychlorinated biphenyls; PCBs; dechlorinating activity; ds.
 OS Unidentified.

PN WO2003065011-A2.

PD 07-AUG-2003.

PF 03-FEB-2003; 2003WO-US003202.

PR 01-FEB-2002; 2002US-0353134P.

PA (UTMA-) UNIV MARYLAND BIOTECHNOLOGY INST.

PI Sowers KR, May HD;

PS WPI; 2003-636818/60.

FT Stimulation of polychlorinated biphenyl dechlorinating bacteria comprises
 PT contacting polychlorinated biphenyl dechlorinating bacteria with
 PT stimulant having polyhalogenated ethene(s).

PS Disclosure; Fig 4; 4lpp; English.

CC The present invention relates to compositions and methods for
 CC bioremediation of polychlorinated biphenyls (PCBs) using dechlorinating
 CC microorganisms grown in the presence of stimulating halogenated
 CC hydrocarbons and polyhalogenated ethenes. Polyhalogenated ethenes are
 CC used to stimulate the growth and dechlorinating activity of PCB
 CC dechlorinating bacteria in a contaminated soil or sediment. The present
 CC sequence is 16S ribosomal subunit DNA

SQ Sequence 336 BP; 76 A; 83 C; 97 G; 80 T; 0 U; 0 Other;

Query Match 100.0%; Score 22; DB 9; Length 336;
 Best Local Similarity 100.0%; Pred. No. 0.00072;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACAAGGCCGAGAACGTATTCA 22

DB 323 ACAAGGCCGAGAACGTATTCA 302

RESULT 3

AAD58049/c

ID AAD58049 standard; DNA; 1014 BP.

XX

AC AAD58049;
 XX 20-NOV-2003 (first entry)
 DT
 XX Dehalococcoides related family A 16S DHFA sequence.
 DE
 XX 16S rDNA; dechlorinating bacterial organism; ds.
 KW
 XX Unidentified.
 OS
 XX WO2003064695-A1.
 PN
 XX 07-AUG-2003.
 PD
 XX 30-JAN-2002; 2002WO-US003927.
 PF
 XX 30-JAN-2002; 2002WO-US003927.
 PR
 XX (DUPO) DU PONT DE NEMOURS & CO E I.
 PA
 XX Ebersole R, Hendrickson E;
 PI
 XX WPI; 2003-636804/60.

DR Novel isolated 16S rDNA sequence useful for forming probes and primers
 PT which are useful for identifying dechlorinating bacterial organism in
 PT various samples.

XX Claim 1; Page 99-100; 110pp; English.

CC The invention relates to an isolated 16S rDNA sequence indicative of a
 CC dechlorinating bacterial organism. The invention is useful for forming
 CC probes and primers which are useful for identifying dechlorinating
 CC bacterial organism in various samples. The method of the invention is
 CC useful for identifying a dechlorinating bacterial organism that is a
 CC member of a cell population or consortium. The isolated bacterial
 CC organism is useful for dechlorinating chlorinated compounds which
 CC involves contacting a chlorinated compound with the organism.

CC Oligonucleotide polymer of the invention is useful for separating sub-
 CC families of dechlorinating bacterial organism. The present sequence is
 CC Dehalococcoides related family A 16S DHFA sequence

XX Sequence 1014 BP; 256 A; 238 C; 309 G; 211 T; 0 U; 0 Other;

Query Match 100.0%; Score 22; DB 8; Length 1014;
 Best Local Similarity 100.0%; Pred. No. 0.0007;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ACAAGGCCGAGAACGTATTCA 22

DB 1004 ACAAGGCCGAGAACGTATTCA 983

RESULT 4

AAH28398/c

ID AAH28398 standard; rRNA; 1284 BP.

XX AAH28398;

AC AAH28398;

XX

DT 11-SEP-2003 (revised)

DT 17-SEP-2001 (first entry)

XX Intergenic spacer between 16S and 23S rRNA genes of strain FMD-12.

XX Intergenic spacer; Chlamydiaeae; 16S rRNA; 23S rRNA; Region A; Region B;

XX Chlamydial infection; ss.

XX Chlamydia pneumoniae.

XX Key Location/Qualifiers

XX misc_RNA 1-537

XX /*tag= "Region A"

XX /note= "Region A"

```

FT rRNA      1. .221
FT /*tag= a
FT /note= "16S rRNA"
FT misc_RNA  222. .444
FT /*tag= c
FT /*note= "intergenic spacer"
FT rRNA      445. .1284
FT /*tag= e
FT /*note= "23S rRNA"
FT rRNA      445. .1063
FT /*tag= d
FT /*note= "Domain I of 23S rRNA"
FT misc_RNA  959. .1086
FT /*tag= f
FT /*note= "Region B"
FT XX
FT XX
FT XX US6261769-B1.
FT XX
FT PD 17-JUL-2001.
FT XX
FT XX 31-MAR-1998; 98US-00052333.
FT PF 31-MAR-1998; 98US-00052333.
FT PR 31-MAR-1998; 98US-00052333.
FT PA (USDA ) US SEC OF AGRIC.
FT XX
FT PI Everett KDE, Andersen AA;
FT XX
FT XX WPI; 2001-440857/47.
FT DR
FT XX
FT XX New primers and probes derived from sequences of intergenic spacer
FT between 16S and 23S genes and region of Domain I in 23S region of
FT Chlamydiae, useful for assaying and identifying all strains of
FT Chlamydiae.
FT XX
FT PS Disclosure; Col 119-120; 89pp; English.
FT XX
FT CC AAH28371-AAH28413 represent intergenic spacer target sequences, derived
FT from Chlamydiae. The sequences comprise the intergenic spacer between
FT the 16S and the 23S rRNA genes, including the far downstream end of the
FT 16S and the far upstream end of the 23S domain I flanking intergenic
FT spacer (referred to as Region A), and secondarily, a 131 bp region in the
FT 3' end of Domain I (referred to as Region B). The sequences provide
FT suitable target sequences for developing probes and primers which are
FT useful for identifying and detecting Chlamydiae. The primers and
FT probes can be used to identify the presence of Chlamydiae in a test
FT sample, or to distinguish one strain from another, and for diagnosing
FT Chlamydial infections in humans and animals. (Updated on 11-SEP-2003 to
FT standardise OS field)
FT XX
FT SQ Sequence 1284 BP; 394 A; 216 C; 330 G; 344 T; 0 U; 0 Other;
FT
FT Query Match 100.0%; Score 22; DB 4; Length 1284;
FT Best Local Similarity 100.0%; Pred No. 0.00069;
FT Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
FT
FT QY 1 ACAAGGCCCGAGAACGTATTCA 22
FT |||||
FT Db 67 ACAAGGCCCGAGAACGTATTCA 46
FT
FT RESULT 5
FT AAH28396/c
FT ID AAH28396 standard; rRNA; 1284 BP.
FT XX
FT AC AAH28396;
FT XX
FT XX 11-SEP-2003 (revised)
FT DT 17-SEP-2001 (first entry)
FT XX
FT XX Intergenic spacer between 16S and 23S rRNA genes of strain CML-029.
FT XX Intergenic spacer; Chlamydiae; 16S rRNA; 23S rRNA; Region A; Region B;
FT KW

```

```

KW chlamydial infection; ss.
XX Chlamydia pneumoniae.
XX Key Location/Qualifiers
XX misc_RNA 1. .537
XX /*tag= b
XX /note= "Region A"
XX rRNA 1. .221
XX /*tag= a
XX /note= "16S rRNA"
XX misc_RNA 222. .444
XX /*tag= c
XX /note= "intergenic spacer"
XX rRNA 445. .1284
XX /*tag= e
XX /note= "23S rRNA"
XX rRNA 445. .1063
XX /*tag= d
XX /note= "Domain I of 23S rRNA"
XX misc_RNA 959. .1086
XX /*tag= f
XX /note= "Region B"
XX US6261769-B1.
XX 17-JUL-2001.
XX 31-MAR-1998; 98US-00052333.
XX 31-MAR-1998; 98US-00052333.
XX (USDA ) US SEC OF AGRIC.
XX Everett KDE, Andersen AA;
XX WPI; 2001-440857/47.
XX
XX New primers and probes derived from sequences of intergenic spacer
XX between 16S and 23S genes and region of Domain I in 23S region of
XX Chlamydiae, useful for assaying and identifying all strains of
XX Chlamydiae.
XX
XX Disclosure; Col 113-116; 89pp; English.
XX
XX AAH28371-AAH28413 represent intergenic spacer target sequences, derived
XX from Chlamydiae. The sequences comprise the intergenic spacer between
XX the 16S and the 23S rRNA genes, including the far downstream end of the
XX 16S and the far upstream end of the 23S domain I flanking intergenic
XX spacer (referred to as Region A), and secondarily, a 131 bp region in the
XX 3' end of Domain I (referred to as Region B). The sequences provide
XX suitable target sequences for developing probes and primers which are
XX useful for identifying and detecting Chlamydiae. The primers and
XX probes can be used to identify the presence of Chlamydiae in a test
XX sample, or to distinguish one strain from another, and for diagnosing
XX chlamydial infections in humans and animals. (Updated on 11-SEP-2003 to
XX standardise OS field)
XX
XX SQ Sequence 1284 BP; 394 A; 218 C; 329 G; 343 T; 0 U; 0 Other;
XX
XX Query Match 100.0%; Score 22; DB 4; Length 1284;
XX Best Local Similarity 100.0%; Pred. No. 0.00069;
XX Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 ACAAGGCCCGAGAACGTATTCA 22
XX |||||
XX Db 67 ACAAGGCCCGAGAACGTATTCA 46
XX
XX RESULT 6
XX AAH28401/c
XX ID AAH28401 standard; rRNA; 1284 BP.
XX

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```
XX SQ Sequence 1284 BP; 392 A; 218 C; 331 G; 343 T; 0 U; 0 Other;
Query Match 100.0%; Score 22; DB 4; Length 1284;
Best Local Similarity 100.0%; Pred. No. 0.00069;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAAGGCCCGAGAACGTATTCA 22
DB 67 ACAAGGCCCGAGAACGTATTCA 46

RESULT 8
AAH28399/c
ID AAH28399 standard; rRNA; 1284 BP.
XX AC AAH28399;
XX DT 11-SEP-2003 (revised)
XX DT 17-SEP-2001 (first entry)
XX DE Intergenic spacer between 16S and 23S rRNA genes of strain FVL-16.
XX KW Intergenic spacer; Chlamydiaceae; 16S rRNA; 23S rRNA; Region A; Region B;
XX KW chlamydial infection; ss.
XX OS Chlamydomphila pneumoniae.
XX FH Key Location/Qualifiers
FT misc_RNA 1..537
FT /*tag= b
FT /note= "Region A"
FT rRNA 1..221
FT /*tag= a
FT /note= "16S rRNA"
FT misc_RNA 222..444
FT /*tag= c
FT /note= "intergenic spacer"
FT rRNA 445..1284
FT /*tag= e
FT /note= "23S rRNA"
FT rRNA 445..1063
FT /*tag= d
FT /note= "Domain I of 23S rRNA"
FT misc_RNA 959..1086
FT /*tag= f
FT /note= "Region B"
XX US6261769-B1.
XX 17-JUL-2001.
XX 31-MAR-1998; 98US-00052333.
XX 31-MAR-1998; 98US-00052333.
XX (USDA ) US SEC OF AGRIC.
XX Everett KDE, Andersen AA;
XX WPI; 2001-440857/47.
XX New primers and probes derived from sequences of intergenic spacer
XX between 16S and 23S genes and region of Domain I in 23S region of
XX Chlamydiaceae, useful for assaying and identifying all strains of
XX Chlamydiaceae.
XX Disclosure; Col 121-122; 89pp; English.
XX AAH28371-AAH28413 represent intergenic spacer target sequences, derived
XX from Chlamydiaceae. The sequences comprise the intergenic spacer between
XX the 16S and the 23S rRNA genes, including the far downstream end of the
XX 16S and the far upstream end of the 23S domain I flanking intergenic
```

```
CC spacer (referred to as Region A), and secondarily, a 131 bp region in the
CC 3' end of Domain I (referred to as Region B). The sequences provide
CC suitable target sequences for developing probes and primers which are
CC useful for identifying and detecting Chlamydiaceae. The primers and
CC probes can be used to identify the presence of Chlamydiaceae in a test
CC sample, or to distinguish one strain from another, and for diagnosing
CC chlamydial infections in humans and animals. (Updated on 11-SEP-2003 to
CC standardise OS field)
XX SQ Sequence 1284 BP; 394 A; 216 C; 330 G; 344 T; 0 U; 0 Other;
Query Match 100.0%; Score 22; DB 4; Length 1284;
Best Local Similarity 100.0%; Pred. No. 0.00069;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAAGGCCCGAGAACGTATTCA 22
DB 67 ACAAGGCCCGAGAACGTATTCA 46

RESULT 9
AAC62240/c
ID AAC62240 standard; DNA; 1335 BP.
XX AC AAC62240;
XX DT 19-MAR-2001 (first entry)
XX DE A 16S rDNA sequence indicative of a chlorinating bacterial strain.
XX KW 16S rDNA; dechlorinating activity; chlorinated compound; vinyl chloride;
XX KW carbontetrachloride; tetrachloroethane; chloroform; dichloromethane;
XX KW trichloroethane; dichloroethylene; chlorinating bacteria; ss.
XX OS Dehalococcoides ethenogenes.
XX PN WO200063443-A2.
XX PD 26-OCT-2000.
XX PF 13-APR-2000; 2000WO-US009883.
XX PR 15-APR-1999; 99US-0129511P.
XX PA (DUPO ) DU PONT DE NEMOURS & CO E I.
XX PI Hendrickson ER, Ebersole RC;
XX WPI; 2001-024581/03.
XX PT New 16S rDNA profile derived from Dehalococcoides ethenogenes and
XX PT indicative of a dechlorinating bacterial strain.
XX PS Claim 1; Page 47-48; 55pp; English.
XX The present sequence represents the 16S rDNA profile of Dehalococcoides
XX ethenogenes strain STF isolated from soil surrounding an industrial
XX site. The 16S rDNA profile is linked to dechlorinating activity.
XX Bacterial strain comprising the 16S rDNA sequence of the invention are
XX useful for the dechlorination of chlorinated compounds such as
XX carbontetrachloride, tetrachloroethane, chloroform, dichloromethane,
XX trichloroethane, dichloroethylene, vinyl chloride, and chloroformatics.
XX The 16S rDNA sequence is also useful for identification of new
XX chlorinating bacteria, as well as sub-typing strains of Dehalococcoides
XX ethenogenes
XX SQ Sequence 1335 BP; 348 A; 288 C; 403 G; 296 T; 0 U; 0 Other;
Query Match 100.0%; Score 22; DB 4; Length 1335;
Best Local Similarity 100.0%; Pred. No. 0.00069;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAAGGCCCGAGAACGTATTCA 22
```

```

Db      1322 ACAAGGCCCGAGAACGTATTCA 1301
|||||
RESULT 10
AAD57957/c
ID      AAD57957 standard; DNA; 1377 BP.
XX
AC      AAD57957;
XX
DT      20-NOV-2003 (first entry)
XX
DE      Dehalococcoides ethenogenes strain DAB 16S rDNA (DHE-DAB) .
XX
KW      16S rDNA; dechlorinating bacterial organism; ds.
XX
OS      Dehalococcoides ethenogenes.
XX
PN      WO2003064695-A1.
XX
PD      07-AUG-2003.
XX
PF      30-JAN-2002; 2002WO-US003927.
XX
PR      30-JAN-2002; 2002WO-US003927.
XX
PA      (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
PI      Ebersole R, Hendrickson E;
XX
WPI; 2003-636804/60.
XX
Novel isolated 16S rDNA sequence useful for forming probes and primers
PT which are useful for identifying dechlorinating bacterial organism in
PT various samples.
XX
PS      Claim 31; Fig 1; 110pp; English.
XX
CC      The invention relates to an isolated 16S rDNA sequence indicative of a
CC dechlorinating bacterial organism. The invention is useful for forming
CC probes and primers which are useful for identifying dechlorinating
CC bacterial organism in various samples. The method of the invention is
CC useful for identifying a dechlorinating bacterial organism that is a
CC member of a cell population or consortium. The isolated bacterial
CC organism is useful for dechlorinating chlorinated compounds which
CC involves contacting a chlorinated compound with the organism.
CC Oligonucleotide polymer of the invention is useful for separating sub-
CC families of dechlorinating bacterial organism. The present sequence is
CC Dehalococcoides ethenogenes 16S rDNA
XX
SQ      Sequence 1377 BP; 357 A; 299 C; 415 G; 306 T; 0 U; 0 Other;

Query Match      100.0%; Score 22; DB 8; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0.00069;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1 ACAAGGCCCGAGAACGTATTCA 22
|||||
DB      1321 ACAAGGCCCGAGAACGTATTCA 1300

RESULT 11
AAD57957/c
ID      AAD57957 standard; DNA; 1377 BP.
XX
AC      AAD57957;
XX
DT      20-NOV-2003 (first entry)
XX
DE      Dehalococcoides ethenogenes strain PL 16S rDNA (DHE-PL) .
XX
KW      16S rDNA; dechlorinating bacterial organism; ds.
XX

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OS      Dehalococcoides ethenogenes.
XX
PN      WO2003064695-A1.
XX
PD      07-AUG-2003.
XX
PF      30-JAN-2002; 2002WO-US003927.
XX
PR      30-JAN-2002; 2002WO-US003927.
XX
PA      (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
PI      Ebersole R, Hendrickson E;
XX
WPI; 2003-636804/60.
XX
Novel isolated 16S rDNA sequence useful for forming probes and primers
PT which are useful for identifying dechlorinating bacterial organism in
PT various samples.
XX
PS      Claim 31; Fig 1; 110pp; English.
XX
CC      The invention relates to an isolated 16S rDNA sequence indicative of a
CC dechlorinating bacterial organism. The invention is useful for forming
CC probes and primers which are useful for identifying dechlorinating
CC bacterial organism in various samples. The method of the invention is
CC useful for identifying a dechlorinating bacterial organism that is a
CC member of a cell population or consortium. The isolated bacterial
CC organism is useful for dechlorinating chlorinated compounds which
CC involves contacting a chlorinated compound with the organism.
CC Oligonucleotide polymer of the invention is useful for separating sub-
CC families of dechlorinating bacterial organism. The present sequence is
CC Dehalococcoides ethenogenes 16S rDNA
XX
SQ      Sequence 1377 BP; 361 A; 298 C; 412 G; 305 T; 0 U; 1 Other;

Query Match      100.0%; Score 22; DB 8; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0.00069;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1 ACAAGGCCCGAGAACGTATTCA 22
|||||
DB      1321 ACAAGGCCCGAGAACGTATTCA 1300

RESULT 12
AAD57961/c
ID      AAD57961 standard; DNA; 1377 BP.
XX
AC      AAD57961;
XX
DT      20-NOV-2003 (first entry)
XX
DE      Dehalococcoides ethenogenes strain DLL 16S rDNA (DHE-DLL) .
XX
KW      16S rDNA; dechlorinating bacterial organism; ds.
XX
OS      Dehalococcoides ethenogenes.
XX
PN      WO2003064695-A1.
XX
PD      07-AUG-2003.
XX
PF      30-JAN-2002; 2002WO-US003927.
XX
PR      30-JAN-2002; 2002WO-US003927.
XX
PA      (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
PI      Ebersole R, Hendrickson E;
XX
WPI; 2003-636804/60.
XX

```

PT Novel isolated 16S rDNA sequence useful for forming probes and primers
PT which are useful for identifying dechlorinating bacterial organism in
various samples.

XX Claim 31; Fig 1; 110pp; English.

XX The invention relates to an isolated 16S rDNA sequence indicative of a
CC dechlorinating bacterial organism. The invention is useful for forming
CC probes and primers which are useful for identifying dechlorinating
CC bacterial organism in various samples. The method of the invention is
CC useful for identifying a dechlorinating bacterial organism that is a
CC member of a cell population or consortium. The isolated bacterial
CC organism is useful for dechlorinating chlorinated compounds which
CC involves contacting a chlorinated compound with the organism.
CC Oligonucleotide polymer of the invention is useful for separating sub-
CC families of dechlorinating bacterial organism. The present sequence is
CC Dehalococcoides ethenogenes 16S rDNA

XX Sequence 1377 BP; 360 A; 300 C; 414 G; 303 T; 0 U; 0 Other;

Query Match 100.0%; Score 22; DB 8; Length 1377;

Best Local Similarity 100.0%; Pred. No. 0.00069;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGACGTATTCA 22

DB 1321 ACAAGGCCCGAGACGTATTCA 1300

RESULT 13

AAD57960/c

ID AAD57960 standard; DNA; 1377 BP.

XX

AC AAD57960;

XX 20-NOV-2003 (first entry)

DT

XX Dehalococcoides ethenogenes strain PIN 16S rDNA (DHE-PIN).

DE

XX 16S rDNA; dechlorinating bacterial organism; ds.

KW

XX Dehalococcoides ethenogenes.

OS

XX WO2003064695-A1.

PN

XX 07-AUG-2003.

PD

XX 30-JAN-2002; 2002WO-US003927.

PF

XX 30-JAN-2002; 2002WO-US003927.

PR

XX (DUPO) DU PONT DE NEMOURS & CO E I.

PA

XX Ebersole R, Hendrickson E;

PI

XX WPI; 2003-636804/60.

DR

XX Novel isolated 16S rDNA sequence useful for forming probes and primers
PT which are useful for identifying dechlorinating bacterial organism in
various samples.

XX Claim 31; Fig 1; 110pp; English.

PS

XX The invention relates to an isolated 16S rDNA sequence indicative of a
CC dechlorinating bacterial organism. The invention is useful for forming
CC probes and primers which are useful for identifying dechlorinating
CC bacterial organism in various samples. The method of the invention is
CC useful for identifying a dechlorinating bacterial organism that is a
CC member of a cell population or consortium. The isolated bacterial
CC organism is useful for dechlorinating chlorinated compounds which
CC involves contacting a chlorinated compound with the organism.
CC Oligonucleotide polymer of the invention is useful for separating sub-
CC families of dechlorinating bacterial organism. The present sequence is

CC Dehalococcoides ethenogenes 16S rDNA

XX Sequence 1377 BP; 357 A; 299 C; 415 G; 306 T; 0 U; 0 Other;

SQ

Query Match 100.0%; Score 22; DB 8; Length 1377;

Best Local Similarity 100.0%; Pred. No. 0.00069;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGACGTATTCA 22

DB 1321 ACAAGGCCCGAGACGTATTCA 1300

RESULT 14

AAD57958/c

ID AAD57958 standard; DNA; 1378 BP.

XX

AC AAD57958;

XX

XX 20-NOV-2003 (first entry)

DT

XX Dehalococcoides ethenogenes strain V/SFD 16S rDNA (DHE-V/SFD).

DE

XX 16S rDNA; dechlorinating bacterial organism; ds.

KW

XX Dehalococcoides ethenogenes.

OS

XX WO2003064695-A1.

PN

XX 07-AUG-2003.

PD

XX 30-JAN-2002; 2002WO-US003927.

PF

XX 30-JAN-2002; 2002WO-US003927.

PR

XX (DUPO) DU PONT DE NEMOURS & CO E I.

PA

XX Ebersole R, Hendrickson E;

PI

XX WPI; 2003-636804/60.

DR

XX Novel isolated 16S rDNA sequence useful for forming probes and primers
PT which are useful for identifying dechlorinating bacterial organism in
various samples.

XX Claim 31; Fig 1; 110pp; English.

PS

XX The invention relates to an isolated 16S rDNA sequence indicative of a
CC dechlorinating bacterial organism. The invention is useful for forming
CC probes and primers which are useful for identifying dechlorinating
CC bacterial organism in various samples. The method of the invention is
CC useful for identifying a dechlorinating bacterial organism that is a
CC member of a cell population or consortium. The isolated bacterial
CC organism is useful for dechlorinating chlorinated compounds which
CC involves contacting a chlorinated compound with the organism.
CC Oligonucleotide polymer of the invention is useful for separating sub-
CC families of dechlorinating bacterial organism. The present sequence is
CC Dehalococcoides ethenogenes 16S rDNA

XX Sequence 1378 BP; 361 A; 300 C; 413 G; 304 T; 0 U; 0 Other;

SQ

Query Match 100.0%; Score 22; DB 8; Length 1378;

Best Local Similarity 100.0%; Pred. No. 0.00069;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGACGTATTCA 22

DB 1322 ACAAGGCCCGAGACGTATTCA 1301

RESULT 15

AAC62244/c

ID AAC62244 standard; DNA; 1443 BP.

```

XX AAC62244;
AC
XX
XX DT 19-MAR-2001 (first entry)
XX
XX DE A 16S rDNA sequence indicative of a chlorinating bacterial strain.
XX
XX KW 16S rDNA; dechlorinating activity; chlorinated compound; vinyl chloride;
KW carbon tetrachloride; tetrachloroethane; chloroform; dichloromethane;
XX trichloroethane; dichloroethylene; chlorinating bacteria; ss.
XX
XX OS Dehalococcoides ethenogenes.
XX
XX PN WO200063443-A2.
XX
XX PD 26-OCT-2000.
XX
XX PF 13-APR-2000; 2000WO-US009883.
XX
XX PR 15-APR-1999; 99US-0129511P.
XX
XX PA (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
XX PI Hendrickson ER, Ebersole RC;
XX
XX DR WPI; 2001-024581/03.
XX
XX PT New 16S rDNA profile derived from Dehalococcoides ethenogenes and
XX indicative of a dechlorinating bacterial strain.
XX
XX PS Example 2; Page 49-50; 55pp; English.
XX
XX CC The present sequence represents the 16S rDNA profile of Dehalococcoides
XX ethenogenes strain 195. The 16S rDNA profile is linked to dechlorinating
XX activity. Bacterial strain comprising the 16S rDNA sequence of the
XX invention are useful for the dechlorination of chlorinated compounds such
XX as carbon tetrachloride, tetrachloroethane, chloroform, dichloromethane,
XX trichloroethane, dichloroethylene, vinyl chloride, and chloroaromatics.
XX The 16S rDNA sequence is also useful for identification of new
XX chlorinating bacteria, as well as sub-typing strains of Dehalococcoides
XX ethenogenes
XX
XX SQ Sequence 1443 BP; 379 A; 306 C; 443 G; 314 T; 0 U; 1 Other;
Query Match 100.0%; Score 22; DB 4; Length 1443;
Best Local Similarity 100.0%; Pred. No. 0.00069;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ACAAGGCCCGAGAACGTATTC A 22
Db 1329 ACAAGGCCCGAGAACGTATTC A 1308
Search completed: August 4, 2004, 06:43:37
Job time : 182.771 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 06:43:54 ; Search time 208.988 Seconds
(without alignments)
247.629 Million cell updates/sec

Title: US-09-940-860-4

Perfect score: 21

Sequence: 1 gtgcagcagcagcggttaata 21

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 4754066 seqs, 1232178907 residues

Word size : 0

Total number of hits satisfying chosen parameters: 9508132

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Pending Patents NA New:**

- 1: /cgn2_6/ptodata/2/pna/PCT_NEW_COMB.seq.*
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- 3: /cgn2_6/ptodata/2/pna/US07_NEW_COMB.seq.*
- 4: /cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq.*
- 5: /cgn2_6/ptodata/2/pna/US09_NEW_COMB.seq.*
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- 7: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq.*
- 8: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq.*
- 9: /cgn2_6/ptodata/2/pna/US60_NEW_COMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
C 1	17	81.0	1542	8	US-10-864-684-581
C 2	17	81.0	2838	1	PCT-US03-41761-45189
C 3	17	81.0	2838	1	PCT-US03-41761-45189
C 4	17	81.0	2838	1	PCT-US03-41766A-45189
C 5	16	76.2	783	1	PCT-US03-36229-174
C 6	16	76.2	783	1	PCT-US04-17686-2493
C 7	16	76.2	815	6	US-10-425-115-47421
C 8	16	76.2	830	6	US-10-425-115-79433
C 9	16	76.2	1119	6	US-10-669-143-12
C 10	16	76.2	1119	7	US-10-835-208-10
C 11	16	76.2	1647	1	PCT-US04-05092-48
C 12	16	76.2	10925	7	US-10-767-471-10719
C 13	15	71.4	201	6	US-10-425-115-139088
C 14	15	71.4	213	1	PCT-US04-12047-347
C 15	15	71.4	260	6	US-10-425-115-49000
C 16	15	71.4	300	6	US-10-425-115-44757
C 17	15	71.4	526	6	US-10-425-115-139649
C 18	15	71.4	717	6	US-10-425-115-152690
C 19	15	71.4	748	6	US-10-425-115-171414
C 20	15	71.4	837	6	US-10-425-115-146825
C 21	15	71.4	863	6	US-10-425-115-146920
C 22	15	71.4	923	7	US-10-767-701-11322
C 23	15	71.4	1083	1	PCT-US04-02974-43
C 24	15	71.4	1083	7	US-10-770-668-43

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25 15 71.4 1126 1 PCT-US03-41761-34028 Sequence 34028, A
26 15 71.4 1126 1 PCT-US03-41761-34028 Sequence 34028, A
27 15 71.4 1126 1 PCT-US03-41766A-34028 Sequence 34028, A
C 28 15 71.4 1167 1 PCT-US04-07467-211 Sequence 211, App
29 15 71.4 1205 6 US-10-425-115-100996 Sequence 100996,
C 30 15 71.4 1343 6 US-10-425-115-179268 Sequence 179268,
C 31 15 71.4 1636 7 US-10-796-174-56 Sequence 56, Appl
C 32 15 71.4 1739 6 US-10-425-115-14642 Sequence 14642, A
C 33 15 71.4 1751 1 PCT-US04-12706-29 Sequence 29, Appl
C 34 15 71.4 1751 7 US-10-830-828-29 Sequence 29, Appl
C 35 15 71.4 2039 7 US-10-491-468-79 Sequence 79, Appl
C 36 15 71.4 3770 1 PCT-US04-11193-9 Sequence 9, Appl
C 37 15 71.4 3884 6 US-10-127-823A-145 Sequence 145, App
C 38 15 71.4 3884 7 US-10-152-372-145 Sequence 145, App
C 39 15 71.4 3884 7 US-10-123-155-145 Sequence 145, App
C 40 15 71.4 3884 8 US-10-143-117-145 Sequence 145, App
C 41 15 71.4 3884 8 US-10-143-117-145 Sequence 145, App
C 42 15 71.4 5337 7 US-10-852-074-11 Sequence 11, Appl
C 43 15 71.4 17777 8 US-10-868-184A-5663 Sequence 5663, Ap
C 44 15 71.4 17777 8 US-10-868-184-5663 Sequence 5663, Ap
C 45 14 66.7 78 1 PCT-US03-41269-8 Sequence 8, Appl

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ALIGNMENTS

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RESULT 1
US-10-864-684-581/c
; Sequence 581, Application US/10864684
; GENERAL INFORMATION:
; APPLICANT: Scariato, Vincenzo
; APPLICANT: Masignani, Vega
; APPLICANT: Rappuoli, Rino
; APPLICANT: Pizzia, Mariagrazia
; APPLICANT: Grandi, Guido
; TITLE OF INVENTION: Neisserial Antigens
; FILE REFERENCE: CHIR0160
; CURRENT APPLICATION NUMBER: US/10/864,684
; CURRENT FILING DATE: 2004-06-08
; NUMBER OF SEQ ID NOS: 1168
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 581
; LENGTH: 1542
; TYPE: DNA
; ORGANISM: Neisseria gonorrhoeae
US-10-864-684-581

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Query Match 81.0%; Score 17; DB 8; Length 1542;
Best Local Similarity 100.0%; Pred. No. 9.6;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 3 GCCAGCAGCAGCGGTAA 19
    |||||
DB 1148 GCCAGCAGCAGCGGTAA 1132

```

```

RESULT 2
PCT-US03-41761-45189/c
; Sequence 45189, Application PC/TUS0341761
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: CHARTERIS, Paul
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; TITLE OF INVENTION: COMPOSITIONS, METHODS, AND SYSTEMS FOR INFERRING BOVINE BREED
; FILE REFERENCE: MM1150M0
; CURRENT APPLICATION NUMBER: PCT/US03/41761
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922

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; SOFTWARE: Patentin version 3.1
; SEQ ID NO 45189
; LENGTH: 2838
; TYPE: DNA
; ORGANISM: Bovine 19866880933064
PCT-US03-41761-45189

Query Match      81.0%; Score 17; DB 1; Length 2838;
Best Local Similarity 100.0%; Pred. No. 9.7;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCCAGCAGCAGCGGT 17
Db 2268 GTGCCAGCAGCAGCGGT 2252

RESULT 3
PCT-US03-41761-45189/c
; Sequence 45189, Application PC/TUS0341761
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: CHARTERIS, Paul
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; TITLE OF INVENTION: COMPOSITIONS, METHODS, AND SYSTEMS FOR INFERRING BOVINE BREED
; FILE REFERENCE: MM11150W0
; CURRENT APPLICATION NUMBER: PCT/US03/41761
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 45189
; LENGTH: 2838
; TYPE: DNA
; ORGANISM: Bovine 19866880933064
PCT-US03-41761-45189

Query Match      81.0%; Score 17; DB 1; Length 2838;
Best Local Similarity 100.0%; Pred. No. 9.7;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCCAGCAGCAGCGGT 17
Db 2268 GTGCCAGCAGCAGCGGT 2252

RESULT 4
PCT-US03-41766A-45189/c
; Sequence 45189, Application PC/TUS0341766A
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS, METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM11100W0
; CURRENT APPLICATION NUMBER: PCT/US03/41766A
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 45189
; LENGTH: 2838
; TYPE: DNA
; ORGANISM: Bovine 19866880933064
PCT-US03-41766A-45189
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Query Match      81.0%; Score 17; DB 1; Length 2838;
Best Local Similarity 100.0%; Pred. No. 9.7;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCCAGCAGCAGCGGT 17
Db 2268 GTGCCAGCAGCAGCGGT 2252

RESULT 5
PCT-US03-36229-174
; Sequence 174, Application PC/TUS0336229
; GENERAL INFORMATION:
; APPLICANT: Nura Inc
; TITLE OF INVENTION: Nuclear Receptor-Based Diagnostic,
; Therapeutic and Screening Methods
; FILE REFERENCE: 50001/014W02
; CURRENT APPLICATION NUMBER: PCT/US03/36229
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/426,305
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 174
; LENGTH: 783
; TYPE: DNA
; ORGANISM: Mus musculus
PCT-US03-36229-174

Query Match      76.2%; Score 16; DB 1; Length 783;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCCAGCAGCAGCGG 16
Db 129 GTGCCAGCAGCAGCGG 144

RESULT 6
PCT-US04-17686-2493
; Sequence 2493, Application PC/TUS0417686
; GENERAL INFORMATION:
; APPLICANT: THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY
; THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, CENTERS
; FOR DISEASE CONTROL AND PREVENTION
; TITLE OF INVENTION: PNI MICROARRAY AND USES
; FILE REFERENCE: 14114.0375P1
; CURRENT APPLICATION NUMBER: PCT/US04/17686
; CURRENT FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: 60/475,915
; PRIOR FILING DATE: 2003-06-04
; NUMBER OF SEQ ID NOS: 3085
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 2493
; LENGTH: 783
; TYPE: DNA
; ORGANISM: Mus musculus
PCT-US04-17686-2493

Query Match      76.2%; Score 16; DB 1; Length 783;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCCAGCAGCAGCGG 16
Db 129 GTGCCAGCAGCAGCGG 144

RESULT 7
US-10-425-115-47421
; Sequence 47421, Application US/10425115
; GENERAL INFORMATION:
```

```
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 47421
; LENGTH: 815
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(815)
; OTHER INFORMATION: unsure at all n locations
; OTHER INFORMATION: Clone ID: MRT4577_143255C.1
US-10-425-115-47421

Query Match          76.2%; Score 16; DB 6; Length 815;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3  GCCAGCAGCAGCGGTA 18
Db      552  GCCAGCAGCAGCGGTA 567

RESULT 8
US-10-425-115-79433/c
; SEQUENCE 79433, Application US/10425115
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 79433
; LENGTH: 830
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_172470C.1
US-10-425-115-79433

Query Match          76.2%; Score 16; DB 6; Length 830;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3  GCCAGCAGCAGCGGTA 18
Db      822  GCCAGCAGCAGCGGTA 807

RESULT 9
US-10-669-143-12
; SEQUENCE 12, Application US/10669143
; GENERAL INFORMATION:
; APPLICANT: William Matthews
; APPLICANT: Mark Moore
; APPLICANT: Russell Phillips
; APPLICANT: Michael V. Wiles
; APPLICANT: Thadd C. Reeder
; APPLICANT: Robert G. Wisotzkey
; APPLICANT: Keith D. Allen
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; APPLICANT: Helen Baribault
; APPLICANT: Thomas J. Brennan
; APPLICANT: Catherine Guenther
; APPLICANT: Robert Klein
; APPLICANT: Christopher J. Kirk
; APPLICANT: Simon X. Xie
; APPLICANT: Qin Zhang
; APPLICANT: Agnes Chopin
; TITLE OF INVENTION: Targeted Gene Disruptions, Compositions
; TITLE OF INVENTION: and Methods Related Thereto
; FILE REFERENCE: R-DB-13
; CURRENT APPLICATION NUMBER: US/10/669,143
; CURRENT FILING DATE: 2003-09-23
; PRIOR APPLICATION NUMBER: US 60/413,647
; PRIOR FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: US 60/413,666
; PRIOR FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: US 60/413,653
; PRIOR FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: US 60/413,646
; PRIOR FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: US 60/413,625
; PRIOR FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: US 60/413,639
; PRIOR FILING DATE: 2002-09-24
; NUMBER OF SEQ ID NOS: 237
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; OTHER INFORMATION: US-10-669-143-12

Query Match          76.2%; Score 16; DB 6; Length 1119;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  GTGCCAGCAGCAGCGG 16
Db      161  GTGCCAGCAGCAGCGG 176

RESULT 10
US-10-835-208-10
; SEQUENCE 10, Application US/10835208
; GENERAL INFORMATION:
; APPLICANT: Rosanne M. Crooke
; APPLICANT: Mark J. Graham
; TITLE OF INVENTION: ANTISENSE MODULATION OF SHORT HETERODIMER PARTNER-1 EXPRESSION
; FILE REFERENCE: ISPH-0593
; CURRENT APPLICATION NUMBER: US/10/835,208
; CURRENT FILING DATE: 2004-04-29
; PRIOR APPLICATION NUMBER: US/09/919,197
; PRIOR FILING DATE: 2001-07-31
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 1119
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (33)...(815)
; OTHER INFORMATION: US-10-835-208-10

Query Match          76.2%; Score 16; DB 7; Length 1119;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  GTGCCAGCAGCAGCGG 16
Db      161  GTGCCAGCAGCAGCGG 176
```

```
RESULT 11
PCT-US04-05092-48
; Sequence 48, Application PC/TUS0405092
; GENERAL INFORMATION:
; APPLICANT: INCYTE CORPORATION; RAMKUMAR, Jayalaxmi;
; APPLICANT: MARQUIS, Joseph P.; SWARNAKAR, Anita;
; APPLICANT: CHAWLA, Narinder K.; TRAN, Uyen K.;
; APPLICANT: BECHA, Shanya; LEE, Soo Yeun;
; APPLICANT: HAFALIA, April J.A.; RICHARDSON, Thomas;
; APPLICANT: KHARE, Reena; JIANG, Xin;
; APPLICANT: JACKSON, Alan; YANG, Junming;
; APPLICANT: GORVAD, Ann
; TITLE OF INVENTION: KINASES AND PHOSPHATASES
; FILE REFERENCE: PF-1643 PCT
; CURRENT APPLICATION NUMBER: PCT/US04/05092
; CURRENT FILING DATE: 2004-02-20
; PRIOR APPLICATION NUMBER: US 60/449,059
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/456,932
; PRIOR FILING DATE: 2003-03-19
; PRIOR APPLICATION NUMBER: US 60/458,844
; PRIOR FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: US 60/461,678
; PRIOR FILING DATE: 2003-04-09
; PRIOR APPLICATION NUMBER: US 60/463,937
; PRIOR FILING DATE: 2003-04-17
; NUMBER OF SEQ ID NOS: 92
; SOFTWARE: PERL Program
; SEQ ID NO 48
; LENGTH: 1647
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 7523794CB1
PCT-US04-05092-48
Query Match 76.2%; Score 16; DB 1; Length 1647;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CCAGCAGCAGCGGTAA 19
DB 856 CCAGCAGCAGCGGTAA 871

RESULT 12
US-10-767-471-10719/c
; Sequence 10719, Application US/10767471
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CLO01505
; CURRENT APPLICATION NUMBER: US/10/767,471
; CURRENT FILING DATE: 2004-01-30
; NUMBER OF SEQ ID NOS: 50231
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10719
; LENGTH: 109725
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-767-471-10719
Query Match 76.2%; Score 16; DB 7; Length 109725;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 AGCAGCAGCGGTAA 21
DB 26803 AGCAGCAGCGGTAA 26788

RESULT 13
US-10-425-115-139088/c
; Sequence 139088, Application US/10425115
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: KOVACH, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 139088
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_58330C.1
US-10-425-115-139088
Query Match 71.4%; Score 15; DB 6; Length 201;
Best Local Similarity 100.0%; Pred. No. 97;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCG 15
DB 138 GTGCCAGCAGCAGCG 124

RESULT 14
PCT-US04-12047-347/c
; Sequence 347, Application PC/TUS0412047
; GENERAL INFORMATION:
; APPLICANT: FIVE PRIME THERAPEUTICS, INC.
; TITLE OF INVENTION: HUMAN POLYPEPTIDES ENCODED BY POLYNUCLEOTIDES AND METHODS OF
; FILE REFERENCE: 08940.0021-00304
; CURRENT APPLICATION NUMBER: PCT/US04/12047
; CURRENT FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 1464
; PRIOR APPLICATION NUMBER: US 60/463,732
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: US 60/463,708
; PRIOR FILING DATE: 2003-04-18
; PRIOR APPLICATION NUMBER: US 60/467,230
; PRIOR FILING DATE: 2003-05-02
; PRIOR APPLICATION NUMBER: US 60/467,199
; PRIOR FILING DATE: 2003-05-02
; PRIOR APPLICATION NUMBER: US 60/493,573
; PRIOR FILING DATE: 2003-08-08
; PRIOR APPLICATION NUMBER: US 60/493,577
; PRIOR FILING DATE: 2003-08-08
; PRIOR APPLICATION NUMBER: US 60/486,480
; PRIOR FILING DATE: 2003-07-03
; PRIOR APPLICATION NUMBER: US 60/486,446
; PRIOR FILING DATE: 2003-07-03
; PRIOR APPLICATION NUMBER: US 60/471,306
; PRIOR FILING DATE: 2003-05-19
; PRIOR APPLICATION NUMBER: US 60/471,336
; PRIOR FILING DATE: 2003-05-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 347
; LENGTH: 213
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US04-12047-347
Query Match 71.4%; Score 15; DB 1; Length 213;
Best Local Similarity 100.0%; Pred. No. 98;
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Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCG 15
 |||||
 Db 43 GTGCCAGCAGCAGCG 29

RESULT 15
 US-10-425-115-49000/c
 ; Sequence 49000, Application US/10425115
 ; GENERAL INFORMATION:
 ; APPLICANT: La Rosa, Thomas J.
 ; APPLICANT: Kovalic, David K.
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Cao, Yongwei
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
 ; FILE REFERENCE: 38-21(53222)B
 ; CURRENT APPLICATION NUMBER: US/10/425,115
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 369326
 ; SEQ ID NO 49000
 ; LENGTH: 260
 ; TYPE: DNA
 ; ORGANISM: Zea mays
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: MRT4577_144694C.1
 US-10-425-115-49000

Query Match 71.4%; Score 15; DB 6; Length 260;
 Best Local Similarity 100.0%; Pred. No. 98;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCG 15
 |||||
 Db 160 GTGCCAGCAGCAGCG 146

Search completed: August 4, 2004, 11:43:47
 Job time : 209.988 secs

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Result No.	Score	Query Match	Length	DB ID	Description
1	21	100.0	21	39	US-09-940-860-4
2	21	100.0	5849	19	US-09-369-922-1
3	21	100.0	5849	19	US-09-369-922-1
4	19	90.5	108	68	US-60-128-433-3619
5	19	90.5	116	23	US-09-540-235-4801
6	19	90.5	195	68	US-60-128-433-4848
7	19	90.5	239	23	US-09-540-235-5333
8	19	90.5	282	68	US-60-128-433-3158
9	19	90.5	287	68	US-60-128-433-2909
10	19	90.5	295	23	US-09-540-235-1015
11	19	90.5	295	68	US-60-128-433-1486
12	19	90.5	300	23	US-09-540-235-4526
13	19	90.5	301	23	US-09-540-235-3580
14	19	90.5	301	68	US-60-128-433-5580
15	19	90.5	302	23	US-09-540-235-4659
16	19	90.5	335	23	US-09-540-235-2070
17	19	90.5	335	68	US-60-128-433-3019
18	19	90.5	343	23	US-09-540-235-1051
19	19	90.5	343	68	US-60-128-433-1529
20	19	90.5	351	23	US-09-540-235-3693
21	19	90.5	357	68	US-60-128-433-2469
22	19	90.5	358	23	US-09-540-235-3256
23	19	90.5	358	68	US-60-128-433-5014
24	19	90.5	362	68	US-60-128-433-849
25	19	90.5	364	23	US-09-540-235-2614
26	19	90.5	364	68	US-60-128-433-3929
27	19	90.5	370	68	US-60-128-433-3517
28	19	90.5	371	68	US-60-128-433-6666
29	19	90.5	372	23	US-09-540-235-3216
30	19	90.5	372	68	US-60-128-433-4850
31	19	90.5	375	23	US-09-540-235-2809
32	19	90.5	375	68	US-60-128-433-3924
33	19	90.5	379	23	US-09-540-235-3911
34	19	90.5	380	23	US-09-540-235-4757
35	19	90.5	384	68	US-60-128-433-4162
36	19	90.5	385	23	US-09-540-235-453
37	19	90.5	385	68	US-60-128-433-679
38	19	90.5	386	68	US-60-128-433-913
39	19	90.5	387	68	US-60-128-433-1726
40	19	90.5	389	23	US-09-540-235-2103
41	19	90.5	389	68	US-60-128-433-3100
42	19	90.5	390	23	US-09-540-235-4142
43	19	90.5	394	23	US-09-540-235-3185
44	19	90.5	394	68	US-60-128-433-4897
45	19	90.5	395	23	US-09-540-235-1153

ALIGNMENTS

RESULT 1
US-09-940-860-4
; Sequence 4, Application US/09940860
; GENERAL INFORMATION:
; APPLICANT: Rothman, Richard
; APPLICANT: Majmudar, Maulik
; TITLE OF INVENTION: MOLECULAR DIAGNOSIS OF BACTEREMIA
; FILE REFERENCE: 01107, 00185
; CURRENT APPLICATION NUMBER: US/09/940, 860
; CURRENT FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/229,376
; PRIOR FILING DATE: 2000-08-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: synthetic amplification primer
US-09-940-860-4

Query Match 100.0%; Score 21; DB 39; Length 21;
Best Local Similarity 100.0%; Pred. No. 9.6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGGTAATA 21
|||||
DB 1 GTGCCAGCAGCAGCGGTAATA 21
|||||

RESULT 2

US-09-369-922-1

; Sequence 1, Application US/09369922
; GENERAL INFORMATION:
; APPLICANT: Kara, Anna K.
; APPLICANT: Ting, Robert C.
; APPLICANT: Tham, Jill M.
; APPLICANT: Nelson, James S.
; APPLICANT: Tan, Theresa M.
; TITLE OF INVENTION: Diagnosis of Plasmodium Infection by Analysis of
; FILE OF INVENTION: Extrachromosomal Genetic Material
; FILE REFERENCE: 64-99
; CURRENT APPLICATION NUMBER: US/09/369,922
; CURRENT FILING DATE: 1999-08-06
; PRIOR APPLICATION NUMBER: PCT/IB98/00212
; PRIOR FILING DATE: 1998-02-05
; PRIOR APPLICATION NUMBER: AU P09481/97
; PRIOR FILING DATE: 1997-09-26
; PRIOR APPLICATION NUMBER: AU P09329/97
; PRIOR FILING DATE: 1997-04-21
; PRIOR APPLICATION NUMBER: AU P04953/97
; PRIOR FILING DATE: 1997-02-06
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 5849
; TYPE: DNA
; ORGANISM: Plasmodium berghei
US-09-369-922-1

Query Match 100.0%; Score 21; DB 19; Length 5849;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGGTAATA 21
|||||
DB 4671 GTGCCAGCAGCAGCGGTAATA 4691
|||||

RESULT 3

US-09-369-922-1
; Sequence 1, Application US/09369922
; GENERAL INFORMATION:
; APPLICANT: Kara, Anna K.
; APPLICANT: Ting, Robert C.
; APPLICANT: Tham, Jill M.
; APPLICANT: Nelson, James S.
; APPLICANT: Tan, Theresa M.
; TITLE OF INVENTION: Diagnosis of Parasites
; FILE REFERENCE: 64-99
; CURRENT APPLICATION NUMBER: US/09/369,922
; CURRENT FILING DATE: 1999-08-06
; PRIOR APPLICATION NUMBER: PCT/IB98/00212
; PRIOR FILING DATE: 1998-02-05
; PRIOR APPLICATION NUMBER: AU P09481/97
; PRIOR FILING DATE: 1997-09-26
; PRIOR APPLICATION NUMBER: AU P09329/97
; PRIOR FILING DATE: 1997-04-21
; PRIOR APPLICATION NUMBER: AU P04953/97
; PRIOR FILING DATE: 1997-02-06
; NUMBER OF SEQ ID NOS: 53


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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 5849
; TYPE: DNA
; ORGANISM: Plasmodium berghei
US-09-369-992C-1

Query Match      100.0%; Score 21; DB 19; Length 5849;
Best Local Similarity 100.0%; Pred. No. 5.5;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCCAGCAGCGCGTAA 21
Db 4671 GTGCCAGCAGCGCGTAA 4691

RESULT 4
US-60-128-439-3619
; Sequence 3619, Application US/60128439
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)A
; CURRENT APPLICATION NUMBER: US/60/128,439
; CURRENT FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5661
; SEQ ID NO 3619
; LENGTH: 108
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB190-049-Q1-E1-B2
US-60-128-439-3619

Query Match      90.5%; Score 19; DB 68; Length 108;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCCAGCAGCGCGTAA 19
Db 88 GTGCCAGCAGCGCGTAA 106

RESULT 5
US-09-540-235-4801
; Sequence 4801, Application US/09540235
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)B
; CURRENT APPLICATION NUMBER: US/09/540,235
; CURRENT FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: 60/128,439
; PRIOR FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4801
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB190-049-Q1-E1-B2
US-09-540-235-4801

Query Match      90.5%; Score 19; DB 23; Length 116;
Best Local Similarity 100.0%; Pred. No. 67;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCCAGCAGCGCGTAA 19
Db 96 GTGCCAGCAGCGCGTAA 114
```

```
RESULT 6
US-60-128-439-4848
; Sequence 4848, Application US/60128439
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)A
; CURRENT APPLICATION NUMBER: US/60/128,439
; CURRENT FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5661
; SEQ ID NO 4848
; LENGTH: 195
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB190-062-Q1-E1-E12
US-60-128-439-4848

Query Match      90.5%; Score 19; DB 68; Length 195;
Best Local Similarity 100.0%; Pred. No. 64;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCCAGCAGCGCGTAA 19
Db 114 GTGCCAGCAGCGCGTAA 132

RESULT 7
US-09-540-235-5333
; Sequence 5333, Application US/09540235
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)B
; CURRENT APPLICATION NUMBER: US/09/540,235
; CURRENT FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: 60/128,439
; PRIOR FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 5333
; LENGTH: 239
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB190-062-Q1-E1-E12
US-09-540-235-5333

Query Match      90.5%; Score 19; DB 23; Length 239;
Best Local Similarity 100.0%; Pred. No. 62;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCCAGCAGCGCGTAA 19
Db 154 GTGCCAGCAGCGCGTAA 172

RESULT 8
US-60-128-439-3158
; Sequence 3158, Application US/60128439
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)A
; CURRENT APPLICATION NUMBER: US/60/128,439
; CURRENT FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5661
```

; SEQ ID NO 3158
; LENGTH: 282
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB190-043-Q1-E1-C12
US-60-128-439-3158

Query Match 90.5%; Score 19; DB 68; Length 282;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCCAGCAGCAGCGGTAA 19
|||||
DB 51 GTGCCAGCAGCAGCGGTAA 69
|||||

RESULT 9
US-60-128-439-2909
; Sequence 2909, Application US/60128439
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; APPLICANT: Lalgudi, Raghunath V.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)A
; CURRENT APPLICATION NUMBER: US/60/128,439
; CURRENT FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5661
; SEQ ID NO 2909
; LENGTH: 287
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB190-040-Q1-E1-B11
US-60-128-439-2909

Query Match 90.5%; Score 19; DB 68; Length 287;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCCAGCAGCAGCGGTAA 19
|||||
DB 56 GTGCCAGCAGCAGCGGTAA 74
|||||

RESULT 10
US-09-540-235-1015
; Sequence 1015, Application US/09540235
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; APPLICANT: Lalgudi, Raghunath V.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)B
; CURRENT APPLICATION NUMBER: US/09/540,235
; CURRENT FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: 60/128,439
; PRIOR FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 1015
; LENGTH: 295
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB190-019-Q1-E1-H1
US-09-540-235-1015

Query Match 90.5%; Score 19; DB 23; Length 295;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCCAGCAGCAGCGGTAA 19
|||||

DB 137 GTGCCAGCAGCAGCGGTAA 155
RESULT 11
US-60-128-439-1486
; Sequence 1486, Application US/60128439
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; APPLICANT: Lalgudi, Raghunath V.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)A
; CURRENT APPLICATION NUMBER: US/60/128,439
; CURRENT FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5661
; SEQ ID NO 1486
; LENGTH: 295
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB190-019-Q1-E1-H1
US-60-128-439-1486

Query Match 90.5%; Score 19; DB 68; Length 295;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCCAGCAGCAGCGGTAA 19
|||||
DB 137 GTGCCAGCAGCAGCGGTAA 155
|||||

RESULT 12
US-09-540-235-4526
; Sequence 4526, Application US/09540235
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; APPLICANT: Lalgudi, Raghunath V.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)B
; CURRENT APPLICATION NUMBER: US/09/540,235
; CURRENT FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: 60/128,439
; PRIOR FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4526
; LENGTH: 300
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB190-040-Q1-E1-B11
US-09-540-235-4526

Query Match 90.5%; Score 19; DB 23; Length 300;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTGCCAGCAGCAGCGGTAA 19
|||||
DB 56 GTGCCAGCAGCAGCGGTAA 74
|||||

RESULT 13
US-09-540-235-3580
; Sequence 3580, Application US/09540235
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; APPLICANT: Lalgudi, Raghunath V.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)B
; CURRENT APPLICATION NUMBER: US/09/540,235

; CURRENT FILING DATE: 2000-04-03 60/128,439
; PRIOR APPLICATION NUMBER: 1999-04-06
; PRIOR FILING DATE: 1999-04-06 5674
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 3580
; LENGTH: 301
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; OTHER INFORMATION: Clone ID: LIB190-071-Q1-E1-G6
US-09-540-235-3580

Query Match 90.5%; Score 19; DB 23; Length 301;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGGTAA 19
|||
Db 160 GTGCCAGCAGCAGCGGTAA 178

RESULT 14
US-60-128-439-5580
; Sequence 5580, Application US/60128439
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; APPLICANT: Lalgudi, Raghunath V.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)A
; CURRENT APPLICATION NUMBER: US/60/128,439
; CURRENT FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5661
; SEQ ID NO 5580
; LENGTH: 301
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB190-071-Q1-E1-G6
US-60-128-439-5580

Query Match 90.5%; Score 19; DB 68; Length 301;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGGTAA 19
|||
Db 160 GTGCCAGCAGCAGCGGTAA 178

RESULT 15
US-09-540-235-4659
; Sequence 4659, Application US/09540235
; GENERAL INFORMATION:
; APPLICANT: Fisher, Dane K.
; APPLICANT: Lalgudi, Raghunath V.
; TITLE OF INVENTION: Nucleic Acid Sequences from Cyanidium caldarium and Uses
; FILE REFERENCE: 38-21(15749)B
; CURRENT APPLICATION NUMBER: US/09/540,235
; CURRENT FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: 60/128,439
; PRIOR FILING DATE: 1999-04-06
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4659
; LENGTH: 302
; TYPE: DNA
; ORGANISM: Cyanidium caldarium
; OTHER INFORMATION: Clone ID: LIB190-043-Q1-E1-C12
US-09-540-235-4659

Query Match 90.5%; Score 19; DB 23; Length 302;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGGTAA 19
|||
Db 71 GTGCCAGCAGCAGCGGTAA 89

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Job time : 1918.07 secs

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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 06:01:54 ; Search time 37.9518 Seconds
(without alignments)
307.073 Million cell updates/sec

Title: US-09-940-860-4
Perfect score: 21
Sequence: 1 gtgccagcagcgtaata 21

Scoring table: OLIGO NUC
Gapop 60.0 , Gapext 60.0

Searched: 682709 seqs, 277475446 residues

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Post-processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	16	76.2	426	US-09-252-991A-7151	Sequence 7151, Ap
2	16	76.2	684	US-09-328-352-2320	Sequence 2320, Ap
3	16	76.2	783	US-09-252-991A-7428	Sequence 7428, Ap
4	16	76.2	2541	US-09-252-991A-7209	Sequence 7209, Ap
5	16	76.2	3099	US-09-252-991A-7487	Sequence 7487, Ap
6	15	71.4	32	US-09-807-784B-11	Sequence 11, Appl
7	15	71.4	387	US-09-540-236-1498	Sequence 1498, Ap
8	15	71.4	398	US-09-621-976-9153	Sequence 9153, Ap
9	15	71.4	558	US-09-540-236-958	Sequence 958, Ap
10	15	71.4	828	US-09-489-039A-4976	Sequence 4976, Ap
11	15	71.4	1050	US-09-252-991A-1269	Sequence 1269, Ap
12	15	71.4	1308	US-09-252-991A-1179	Sequence 1179, Ap
13	15	71.4	1575	US-08-639-294-1	Sequence 1, Appl
14	15	71.4	1575	US-09-861-034B-1	Sequence 1, Appl
15	15	71.4	1915	US-09-147-915-1	Sequence 1, Appl
16	15	71.4	2186	US-09-184-001-1	Sequence 1, Appl
17	15	71.4	2558	US-09-184-001-3	Sequence 3, Appl
18	15	71.4	3762	US-09-489-039A-4926	Sequence 4926, Ap
19	15	71.4	62903	US-09-596-002-32	Sequence 32, Appl
20	15	71.4	269223	US-09-596-002-41	Sequence 41, Appl
21	15	71.4	4403765	US-09-103-840A-2	Sequence 2, Appl
22	15	71.4	4411529	US-09-103-840A-2	Sequence 2, Appl
23	14	66.7	15	US-09-275-850-25	Sequence 25, Appl
24	14	66.7	17	US-08-554-612C-35	Sequence 35, Appl
25	14	66.7	39	US-08-721-458B-67	Sequence 67, Appl
26	14	66.7	41	US-08-721-458B-68	Sequence 68, Appl
27	14	66.7	69	US-08-554-612C-37	Sequence 37, Appl

C 28	14	66.7	96	4	US-09-230-233A-4	Sequence 4, Appl
C 29	14	66.7	145	1	US-08-554-612C-48	Sequence 48, Appl
C 30	14	66.7	225	4	US-09-621-976-538	Sequence 538, App
C 31	14	66.7	357	4	US-09-489-039A-909	Sequence 909, App
C 32	14	66.7	360	4	US-09-107-532A-181	Sequence 181, App
C 33	14	66.7	407	4	US-09-621-976-3580	Sequence 3580, Ap
C 34	14	66.7	423	4	US-09-252-991A-606	Sequence 606, App
C 35	14	66.7	423	4	US-09-252-991A-9188	Sequence 9188, Ap
C 36	14	66.7	423	4	US-09-252-991A-9323	Sequence 9323, Ap
C 37	14	66.7	426	4	US-09-252-991A-14686	Sequence 14686, A
C 38	14	66.7	429	4	US-09-252-991A-6653	Sequence 6653, Ap
C 39	14	66.7	459	4	US-09-621-976-3656	Sequence 3656, Ap
C 40	14	66.7	471	4	US-09-252-991A-10011	Sequence 10011, A
C 41	14	66.7	471	4	US-09-489-039A-269	Sequence 269, App
C 42	14	66.7	471	4	US-09-489-039A-1151	Sequence 1151, Ap
C 43	14	66.7	483	1	US-08-554-612C-15	Sequence 15, Appl
C 44	14	66.7	495	4	US-09-252-991A-15946	Sequence 15946, A
C 45	14	66.7	540	4	US-09-489-039A-156	Sequence 156, App

ALIGNMENTS

RESULT 1
US-09-252-991A-7151
; Sequence 7151, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252.991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 7151
; LENGTH: 426
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (256)
; OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
US-09-252-991A-7151

Query Match 75.2%; Score 16; DB 4; Length 426;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTGCCAGCAGCGCG 16
Db 46 GTGCCAGCAGCGCG 61

RESULT 2
US-09-328-352-2320
; Sequence 2320, Application US/09328352
; Patent No. 4562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/328.352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 2320
; LENGTH: 684
; TYPE: DNA

ORGANISM: Acinetobacter baumannii
US-09-328-352-2320

Query Match 76.2%; Score 16; DB 4; Length 684;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CAGCAGCAGCGGTAAT 20
| | | | | | | | | | | | | | | | | | | | | |
DB 170 CAGCAGCAGCGGTAAT 185

RESULT 3
US-09-252-991A-7428/c
; Sequence 7428, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 7428
; LENGTH: 783
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (422)
; OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
US-09-252-991A-7428

Query Match 76.2%; Score 16; DB 4; Length 783;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGG 16
| | | | | | | | | | | | | | | | | | | | | |
DB 632 GTGCCAGCAGCAGCGG 617

RESULT 4
US-09-252-991A-7209
; Sequence 7209, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 7209
; LENGTH: 2541
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (2058)
; OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
US-09-252-991A-7209

Query Match 76.2%; Score 16; DB 4; Length 2541;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGG 16
| | | | | | | | | | | | | | | | | | | | | |
DB 1848 GTGCCAGCAGCAGCGG 1863

RESULT 5
US-09-252-991A-7487/c
; Sequence 7487, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 7487
; LENGTH: 3099
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1117)
; OTHER INFORMATION: Identity of nucleotide at the above locations are unknown.
US-09-252-991A-7487

Query Match 76.2%; Score 16; DB 4; Length 3099;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTGCCAGCAGCAGCGG 16
| | | | | | | | | | | | | | | | | | | | | |
DB 1327 GTGCCAGCAGCAGCGG 1312

RESULT 6
US-09-807-784B-11/c
; Sequence 11, Application US/09807784B
; Patent No. 6653118
; GENERAL INFORMATION:
; APPLICANT: Tanuma, Sei-ichi
; APPLICANT: Shikawa, Daisuke
; TITLE OF INVENTION: No. 6653118el Deoxyribonuclease, Gene Encoding Thereof and Use Th
; FILE REFERENCE: 210792
; CURRENT APPLICATION NUMBER: US/09/807,784B
; CURRENT FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: JP 11-230870
; PRIOR FILING DATE: 1999-08-17
; NUMBER OF SEQ ID NOS: 15
; SEQ ID NO 11
; LENGTH: 32
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide designed to act as sense primer for
; OTHER INFORMATION: amplifying coding sequence of DNase II signal peptide.
US-09-807-784B-11

Query Match 71.4%; Score 15; DB 4; Length 32;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TGCCAGCAGCAGCGG 16
| | | | | | | | | | | | | | | | | | | | | |

Db 32 TGCCAGCAGCAGCGG 18

RESULT 7

US-09-540-236-1498/c
; Sequence 1498, Application US/09540236
; Patent No. 6673910

; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 2709.2005-001

; CURRENT APPLICATION NUMBER: US/09/540,236

; CURRENT FILING DATE: 2000-04-04

; NUMBER OF SEQ ID NOS: 3840

; SEQ ID NO 1498

; LENGTH: 387

; TYPE: DNA

; ORGANISM: M.catarrhalis

US-09-540-236-1498

Query Match 71.4%; Score 15; DB 4; Length 387;

Best Local Similarity 100.0%; Pred. No. 32;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TGCCAGCAGCAGCGG 16

|||||

Db 274 TGCCAGCAGCAGCGG 260

RESULT 8

US-09-621-976-9153/c
; Sequence 9153, Application US/09621976
; Patent No. 6639063

; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.

; APPLICANT: Jobert, S.

; APPLICANT: Giordano, J.Y.

; TITLE OF INVENTION: ESTs and Encoded Human Proteins.

; FILE REFERENCE: GENSET.054PR2

; CURRENT APPLICATION NUMBER: US/09/621,976

; CURRENT FILING DATE: 2000-07-21

; NUMBER OF SEQ ID NOS: 19335

; SOFTWARE: Patent.pm

; SEQ ID NO 9153

; LENGTH: 398

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: 320

; OTHER INFORMATION: n=a, g, c or t

US-09-621-976-9153

Query Match 71.4%; Score 15; DB 4; Length 398;

Best Local Similarity 100.0%; Pred. No. 32;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TGCCAGCAGCAGCGG 16

|||||

Db 126 TGCCAGCAGCAGCGG 112

RESULT 9

US-09-540-236-958/c
; Sequence 958, Application US/09540236
; Patent No. 6673910

; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 2709.2005-001

; CURRENT APPLICATION NUMBER: US/09/540,236

US-09-540-236-958

; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 958
; LENGTH: 558
; TYPE: DNA
; ORGANISM: M.catarrhalis
US-09-540-236-958

Query Match 71.4%; Score 15; DB 4; Length 558;

Best Local Similarity 100.0%; Pred. No. 32;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 AGCAGCAGCGGTAAT 20

|||||

Db 231 AGCAGCAGCGGTAAT 217

RESULT 10

US-09-489-039A-4976

; Sequence 4976, Application US/09489039A

; Patent No. 6610836

; GENERAL INFORMATION:

; APPLICANT: Gary Breton et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 2709.2004001

; CURRENT APPLICATION NUMBER: US/09/489,039A

; CURRENT FILING DATE: 2000-01-27

; PRIOR APPLICATION NUMBER: US 60/117,747

; PRIOR FILING DATE: 1999-01-29

; NUMBER OF SEQ ID NOS: 14342

; SEQ ID NO 4976

; LENGTH: 828

; TYPE: DNA

; ORGANISM: Klebsiella pneumoniae

US-09-489-039A-4976

Query Match 71.4%; Score 15; DB 4; Length 828;

Best Local Similarity 100.0%; Pred. No. 32;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TGCCAGCAGCAGCGG 16

|||||

Db 432 TGCCAGCAGCAGCGG 446

RESULT 11

US-09-252-991A-1269/c

; Sequence 1269, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 1269

; LENGTH: 1050

; TYPE: DNA

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-1269

Query Match 71.4%; Score 15; DB 4; Length 1050;

Best Local Similarity 100.0%; Pred. No. 32;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 CCAGCAGCAGCGGTA 18

```
Db      818 CCAGCAGCAGCGGTA 804
|||||
RESULT 12
US-09-252-991A-1179/c
; Sequence 1179, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 1179
; LENGTH: 1308
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-1179

Query Match      71.4%; Score 15; DB 4; Length 1308;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      4 CCAGCAGCAGCGGTA 18
|||||
Db      868 CCAGCAGCAGCGGTA 854

RESULT 13
US-08-639-294-1/c
; Sequence 1, Application US/08639294
; Patent No. 6265195
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Baron, Will F.
; TITLE OF INVENTION: Human DNase II
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/639,294
; FILING DATE: 25-Apr-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Johnston, Sean A.
; REGISTRATION NUMBER: 35,910
; REFERENCE/DOCKET NUMBER: P1024
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/225-3562
; TELEFAX: 415/952-9881
; TELEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1575 base pairs
; TYPE: Nucleic Acid
; STRANDEDNESS: Single

Db      818 CCAGCAGCAGCGGTA 804
|||||
RESULT 14
US-09-861-034B-1/c
; Sequence 1, Application US/09861034B
; Patent No. 6569429
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Baron, Will F.
; TITLE OF INVENTION: Human DNase II
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/861,034B
; FILING DATE: 18-May-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/639294
; FILING DATE: 25-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Johnston, Sean A.
; REGISTRATION NUMBER: 35,910
; REFERENCE/DOCKET NUMBER: P1024D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/225-3562
; TELEFAX: 650/952-9881
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1575 base pairs
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-861-034B-1

Query Match      71.4%; Score 15; DB 4; Length 1575;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 TCCAGCAGCAGCGG 16
|||||
Db      106 TCCAGCAGCAGCGG 92
|||||

RESULT 15
US-09-147-915-1/c
; Sequence 1, Application US/09147915A
; Patent No. 6184034
; GENERAL INFORMATION:
; APPLICANT: Eastman, Alan
```

```
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
US-08-639-294-1

Query Match      71.4%; Score 15; DB 3; Length 1575;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 TCCAGCAGCAGCGG 16
|||||
Db      106 TCCAGCAGCAGCGG 92
|||||

RESULT 14
US-09-861-034B-1/c
; Sequence 1, Application US/09861034B
; Patent No. 6569429
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Baron, Will F.
; TITLE OF INVENTION: Human DNase II
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WinPatIn (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/861,034B
; FILING DATE: 18-May-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/639294
; FILING DATE: 25-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Johnston, Sean A.
; REGISTRATION NUMBER: 35,910
; REFERENCE/DOCKET NUMBER: P1024D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/225-3562
; TELEFAX: 650/952-9881
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1575 base pairs
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-861-034B-1

Query Match      71.4%; Score 15; DB 4; Length 1575;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 TCCAGCAGCAGCGG 16
|||||
Db      106 TCCAGCAGCAGCGG 92
|||||

RESULT 15
US-09-147-915-1/c
; Sequence 1, Application US/09147915A
; Patent No. 6184034
; GENERAL INFORMATION:
; APPLICANT: Eastman, Alan
```



```

; APPLICANT: Krieser, Ronald
; TITLE OF INVENTION: Deoxyribonuclease II Proteins and cDNAs
; FILE REFERENCE: DC-0097
; CURRENT APPLICATION NUMBER: US/09/147,915A
; CURRENT FILING DATE: 1999-03-23
; EARLIER APPLICATION NUMBER: PCT/US97/18262
; EARLIER FILING DATE: 1997-10-09
; EARLIER APPLICATION NUMBER: 60/028,539
; EARLIER FILING DATE: 1996-10-15
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1915
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-147-915-1

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Query Match      71.4%; Score 15; DB 3; Length 1915;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      2 TGCCAGCAGCGGG 16
Db      88 TGCCAGCAGCGGG 74

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Job time : 42.9518 secs

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OM nucleic - nucleic search, using sw model
Run on: August 4, 2004, 05:41:25 ; Search time 1532.58 Seconds
(without alignments)
428.668 Million cell updates/sec

Title: US-09-940-860-3
Perfect score: 22
Sequence: 1 acaagcccgagacgtatcca 22

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 27513289 seqs, 14931090276 residues

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Minimum DB seq length: 0
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Post-processing: Listing first 45 summaries

Database :

EST:*

- 1: em_estba:*
- 2: em_esthum:*
- 3: em_estlin:*
- 4: em_estmu:*
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- 7: em_estro:*
- 8: em_hic:*
- 9: gb_est1:*
- 10: gb_est2:*
- 11: gb_hic:*
- 12: gb_est3:*
- 13: gb_est4:*
- 14: gb_est5:*
- 15: em_estfun:*
- 16: em_estom:*
- 17: em_gss_hum:*
- 18: em_gss_inv:*
- 19: em_gss_pin:*
- 20: em_gss_vrt:*
- 21: em_gss_fun:*
- 22: em_gss_mam:*
- 23: em_gss_mus:*
- 24: em_gss_pro:*
- 25: em_gss_rod:*
- 26: em_gss_phg:*
- 27: em_gss_vri:*
- 28: gb_gss1:*
- 29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	16	72.7	213	9 AI212321	AI212321 x2902a1.f
C 2	16	72.7	258	10 BF064383	BF064383 SWOVAFCAP
C 3	16	72.7	262	9 AI585049	AI585049 fb69g07.x
C 4	16	72.7	285	9 AI211182	AI211182 c0c05a1.f

C 5	16	72.7	324	9 AI381122	AI381122 SWOVAFCAP
C 6	16	72.7	348	9 AA497171	AA497171 fa01g09.s
C 7	16	72.7	367	12 BI897005	BI897005 fk52e10.y
C 8	16	72.7	371	12 BI897004	BI897004 fk52e10.x
C 9	16	72.7	377	9 AA784579	AA784579 fl1h09a1.f
C 10	16	72.7	445	12 BI896339	BI896339 fc43d02.x
C 11	16	72.7	445	12 BI156391	BI156391 fv18f06.y
C 12	16	72.7	448	12 BI533213	BI533213 f-79a06.x
C 13	16	72.7	452	12 BM102203	BM102203 fv14d10.x
C 14	16	72.7	458	12 BI896999	BI896999 fk50e03.x
C 15	16	72.7	459	12 BI708149	BI708149 fs42g04.x
C 16	16	72.7	466	12 BI866073	BI866073 ft98a01.x
C 17	16	72.7	471	12 BM102107	BM102107 fv13a06.x
C 18	16	72.7	477	9 AI087773	AI087773 SWOVAFCAQ
C 19	16	72.7	478	14 CB081772	CB081772 h556e09.g
C 20	16	72.7	491	12 BI472977	BI472977 ff94c06.y
C 21	16	72.7	496	10 AW281793	AW281793 fj56h02.x
C 22	16	72.7	530	12 BI708185	BI708185 fs43c07.x
C 23	16	72.7	543	12 BI981155	BI981155 fu40d12.x
C 24	16	72.7	544	10 AW179661	AW179661 SWYD25CAU
C 25	16	72.7	545	9 AI353986	AI353986 zeh1247.s
C 26	16	72.7	568	9 AW077500	AW077500 fj35a03.y
C 27	16	72.7	569	12 BM024042	BM024042 fu69a03.y
C 28	16	72.7	591	12 BM070610	BM070610 fv02b01.y
C 29	16	72.7	622	14 CD014811	CD014811 hac25b10.
C 30	16	72.7	672	12 BP176156	BP176156 BP176156
C 31	16	72.7	679	12 BP176155	BP176155 BP176155
C 32	16	72.7	692	13 BU006325	BU006325 OGH10109.
C 33	16	72.7	702	14 CB678345	CB678345 OSNBE16D
C 34	16	72.7	758	28 BZ066995	BZ066995 lj1c35d07.
C 35	16	72.7	768	28 BZ067045	BZ067045 lj1c35d07.
C 36	15	68.2	275	14 CD857812	CD857812 DH0AG52C0
C 37	15	68.2	295	14 CD856759	CD856759 DH0AG23ZD
C 38	15	68.2	304	14 CD857943	CD857943 DH0AG19ZD
C 39	15	68.2	313	14 CD857943	CD857943 DH0AG6ZF0
C 40	15	68.2	319	14 CD858282	CD858282 DH0AG14ZE
C 41	15	68.2	326	14 CD856671	CD856671 DH0AG22ZD
C 42	15	68.2	326	14 CD856685	CD856685 DH0AG22ZE
C 43	15	68.2	326	14 CD856795	CD856795 DH0AG23ZG
C 44	15	68.2	344	14 CD858273	CD858273 DH0AG14ZD
C 45	15	68.2	345	14 CD856625	CD856625 DH0AG21ZH

ALIGNMENTS

RESULT 1	AI212321/c	AI212321	213 bp	mRNA	linear	EST 19-OCT-1998
LOCUS	AI212321/c	x2902a1.f1	Aspergillus nidulans	24hr asexual developmental and vegetative cDNA lambda zap library	Emericella nidulans cDNA clone	
DEFINITION	AI212321	x2902a1 3'	mRNA sequence.			
ACCESSION	AI212321	AI212321.1	GI:3774263			
VERSION	AI212321	EST				
KEYWORDS	AI212321	Emericella nidulans (anamorph: Aspergillus nidulans)				
SOURCE	AI212321	Emericella nidulans				
ORGANISM	AI212321	Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes; Eurotiales; Trichocomaceae; Emericella.				
REFERENCE	AI212321	1 (bases 1 to 213)				
AUTHORS	AI212321	Kupfer, D., Gray, J., Hausner, J., Lai, H., Martin, W., Aramayo, R., Prade, R. and Ros, B.				
TITLE	AI212321	An Aspergillus nidulans EST Database				
JOURNAL	AI212321	Unpublished (1998)				
COMMENT	AI212321	Contact: Bruce A. Roe, University of Oklahoma, broe@ou.edu Department of Chemistry and Biochemistry Advanced Center for Genome Technology, University of Oklahoma 620 Parrington Oval, Norman, OK 73019, USA Tel: 405 325 4912 Fax: 405 325 7762 Email: broe@ou.edu We anticipate the future release of the cDNA clones to the Fungal Genetics Stock Center				

Seq primer: M13-20
High quality sequence stop: 88.
Location/Qualifiers
1. .213
/organism="Emericella nidulans"
/mol_type="mRNA"
/strain="FGSC A26"
/db_xref="taxon:162425"
/clone="X2G02a1"
/tissue_type="vegetative mycelia, asexual structures"
/clone_lib="Aspergillus nidulans 24hr asexual developmental and vegetative cDNA lambda zap library"
/note="Vector: pBluescript SK-; Site 1: EcoRI; Site 2: XhoI; 5' end of cDNA cloned into EcoRI site of pBluescript 3' end of cDNA cloned into XhoI site of pBluescript"

ORIGIN

Query Match 72.7%; Score 16; DB 9; Length 213;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCCGAGAACGTATTCA 22
|||||
Db 98 CCCGAGAACGTATTCA 83
|||||

RESULT 2
BF064383 258 bp mRNA linear EST 17-OCT-2000
LOCUS SNOAFCAP49B11SK Onchocerca volvulus adult female cDNA
DEFINITION (SNOAFMLW-OvAF) Onchocerca volvulus cDNA clone SNOAFCAP49B11 5', mRNA sequence.

ACCESSION
BF064383.1 GI:10841022
VERSION
BF064383.1
KEYWORDS
EST.
SOURCE
Onchocerca volvulus
ORGANISM
Onchocerca volvulus
Eukaryota; Metazoa; Nematoda; Chromadorea; Spirurida; Filarioidea; Onchocercidae; Onchocerca.

REFERENCE
1 (bases 1 to 258)
Lizotte-Waniewski, M. and Williams, S.A.
Genes expressed in adult female stage of Onchocerca volvulus
Unpublished (1998)
Contact: Steven A. Williams
Molecular Parasitology
Smith College Department of Biological Sciences
Department of Biological Sciences, Clark Science Center, Smith
College, Northampton, MA, 01063, USA
Tel: 4135853826
Fax: 4135853786
Email: genome@smith.edu

Seq primer: pBluescript SK.
Location/Qualifiers
1. .258
/organism="Onchocerca volvulus"
/mol_type="mRNA"
/db_xref="taxon:6282"
/clone="SNOAFCAP49B11"
/sex="female"
/dev_stage="adult"
/lab_host="XLI-Blue MRF"
/clone_lib="Onchocerca volvulus adult female cDNA (SNOAFMLW-OvAF)"
/notes="Vector: Lambda Uni-ZAP XR; Site 1: Eco RI; Site 2: Xho I; Filarial nematode parasite of humans. Two adult female worms of Onchocerca volvulus were isolated from consenting patients and quick frozen. Adult female mRNA was converted to double-stranded cDNA using reverse transcriptase and oligo(dT) followed by RNase H and DNA pol I. The library has 7 x 10E5 independent recombinants and the average insert size is ~1100bp. The library was constructed by Michelle Lizotte-Waniewski with worms provided by Dr. Sara Lustigman. The library is available

ORIGIN

Query Match 72.7%; Score 16; DB 10; Length 258;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCCGAGAACGTATTCA 22
|||||
Db 102 CCCGAGAACGTATTCA 87
|||||

RESULT 3
AI585049/c 262 bp mRNA linear EST 07-JUN-2001
LOCUS IMAGE:3717180 3', mRNA sequence.

DEFINITION
AI585049 fb99g07.x1 Zebrafish Washu MPIMG EST Danio rerio cDNA clone
AI585049.1 GI:4570946
VERSION
AI585049.1
KEYWORDS
EST.
SOURCE
Danio rerio (zebrafish)
ORGANISM
Danio rerio
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; Danio.

REFERENCE
1 (bases 1 to 262)
Clark, M., Johnson, S.L., Lehrach, H., Lee, R., Li, F., Marra, M., Eddy, S., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R., and Wilson, R.
Washu Zebrafish EST Project 1998
Unpublished (1998)
Contact: Stephen L. Johnson
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: zbrfish@watson.wustl.edu
CDNA Library Preparation: Matthew Clark. CDNA Library Arrayed by: Matthew Clark. DNA Sequencing by: Washington University Genome Sequencing Center Clone Distribution: Genome Systems, St. Louis, Missouri (web address: www.genomesystems.com) (email contact: misouri@genomesystems.com) and Research Genetics, Huntsville, Alabama (web address: www.resgen.com) (email contact: info@resgen.com) and Ressourcenzentrum Primardatenbank, Berlin, Germany (web address: www.rzpd.de)
zebrafish identity (p-value greater than 1e-99) found to: gi|2230492|gb|AA497171|AA497171 fa01g09.s1 Zebrafish ICRFzfls Danio rerio cDNA
Seq primer: T7 ET from Amersham
High quality sequence stop: 254
POLYA=No.

FEATURES
source
1. .262
/organism="Danio rerio"
/mol_type="mRNA"
/db_xref="taxon:7955"
/clone="IMAGE:3717180"
/sex="mixed"
/tissue_type="26 somite embryos, adult livers, shield stage embryos"
/lab_host="XLI-blue MRF"
/clone_lib="Zebrafish Washu MPIMG EST"
/note="Vector: pSPORT1; Site 1: NotI; Site 2: SalI; 1st strand cDNA was primed with a Not I. oligo(dT)15 primer [5'-pGACTAGTCTAGCCGAGCCGCCCTTTTITTTT3']; double-stranded cDNA was ligated to Sal I adaptors (BRL), digested with Not I and cloned into the Not I and Sal I sites of the pSPORT1 vector (BRL). Library was constructed by Matthew Clark (Lehrach lab; ICRF, London and Max Planck Institut fuer Molekulare Genetik, Berlin). cDNAs for EST

from Dr. Steven A. Williams, email: genome@smith.edu."

analysis were selected following oligonucleotide hybridization fingerprinting of arrayed clones from zebrafish late somitogenesis (26 ss), adult liver or embryonic shield stage (5.6 h) libraries. Fingerprint data were used to computationally cluster cDNAs, and a single cDNA from each cluster was chosen for sequencing. In some cases multiple members of the same cluster were sequenced to assess clustering parameters or single clones were sequenced additional times to assess quality control."

ORIGIN

Query Match 72.7%; Score 16; DB 9; Length 262;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAGGCCGAGACGTA 18
|||||

Db 196 AAGGCCGAGACGTA 181

RESULT 4

AI211182/c 285 bp mRNA linear EST 19-OCT-1998
LOCUS oco05al.f1 Aspergillus nidulans 24hr asexual developmental and vegetative cDNA lambda zap library Emericella nidulans cDNA clone oco05al 3', mRNA sequence.

ACCESSION

AI211182 GI:3773124

VERSION

EST.

KEYWORDS

SOURCE

ORGANISM

Emericella nidulans (anamorph: Aspergillus nidulans)

Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes; Eurotiales; Trichocomaceae; Emericella.

REFERENCE 1 (bases 1 to 285)

AUTHORS Kupfer, D., Gray, J., Hausner, J., Lai, H., Martin, W., Aramayo, R., Prade, R., and Roe, B.

TITLE An Aspergillus nidulans EST Database

JOURNAL Other ESTs: oco05al.r1

COMMENT Contact: Bruce A. Roe, University of Oklahoma, broe@ou.edu

Department of Chemistry and Biochemistry

Advanced Center for Genome Technology, University of Oklahoma

620 Parrington Oval, Norman, OK 73019, USA

Tel: 405 325 4912

Fax: 405 325 7762

Email: broe@ou.edu

We anticipate the future release of the cDNA clones to the Fungal

Genetics Stock Center

Seq primer: M13-20

High quality sequence stop: 219.

FEATURES

source

1..285

/organism="Emericella nidulans"

/mol_type="mRNA"

/strain="FGSC A26"

/db_xref="taxon:162425"

/clone="oco05al"

/tissue_type="vegetative mycelia, asexual structures"

/clone_lib="Aspergillus nidulans 24hr asexual

developmental and vegetative cDNA lambda zap library"

/notes="Vector: pBluescript SK-; Site 1: EcoRI; Site 2:

XhoI; 5' end of cDNA cloned into EcoRI site of pBluescript

3' end of cDNA cloned into XhoI site of pBluescript"

ORIGIN

Query Match 72.7%; Score 16; DB 9; Length 285;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 CCCGAGACGTATTC A 22
|||||

Db 92 CCCGAGACGTATTC A 77

RESULT 5

AI381122/c

LOCUS

DEFINITION

(SAW98MLM-OvAF) Onchocerca volvulus adult female cDNA

mRNA sequence.

ACCESSION

AI381122

VERSION

EST.

KEYWORDS

SOURCE

ORGANISM

Onchocerca volvulus

Eukaryota; Metazoa; Nematoda; Chromadorea; Spirurida; Filarioidea;

Onchocercidae; Onchocerca.

REFERENCE 1 (bases 1 to 324)

AUTHORS Lizotte-Waniewski, M. and Williams, S.A.

TITLE Genes expressed in adult female stage of Onchocerca volvulus

JOURNAL Unpublished (1998)

COMMENT Contact: Steven A. Williams

Molecular Parasitology

Smith College Department of Biological Sciences

Department of Biological Sciences, Clark Science Center, Smith

College, Northampton, MA, 01063, USA

Tel: 4135853826

Fax: 4135853786

Email: genome@smith.edu

Seq primer: pBluescript SK.

FEATURES

source

1..324

/organism="Onchocerca volvulus"

/mol_type="mRNA"

/db_xref="taxon:6282"

/clone="SAW98MLM-OvAF"

/sex="female"

/dev_stage="adult"

/lab_hosts="XLI-Blue MRF"

/clone_lib="Onchocerca volvulus adult female cDNA

(SAW98MLM-OvAF)"

/note="Vector: Lambda Uni-ZAP XR; Site 1: Eco RI; Site 2:

Xho I; Filarial nematode parasite of humans. Two adult

female worms of Onchocerca volvulus were isolated from

consenting patients and quick frozen. Adult female mRNA

was converted to double-stranded cDNA using reverse

transcriptase and oligo(dT) followed by RNase H and DNA

pol I. The library has 7 x 10⁵ independent recombinants

and the average insert size is ~1100bp. The library was

constructed by Michelle Lizotte-Waniewski with worms

provided by Dr. Sara Lustigman. The library is available

from Dr. Steven A. Williams, email: genome@smith.edu."

ORIGIN

Query Match

Best Local Similarity

Matches

Conservative

Mismatches

Indels

Gaps

0;

0;

0;

0;

0;

0;

0;

0;

0;

0;

0;

0;

0;

0;

0;

0;

0;

0;

0;

0;

0;

0;

Cypriniformes; Cyprinidae; Danio.

REFERENCE 1 (bases 1 to 348)

AUTHORS Clark, M., Lebrach, H., Appel, B., Eisen, J., Johnson, S., Marra, M., Eddy, S., Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S., Kucaba, T., Lacy, M., Le, N., Lennon, G., Martin, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie, T., Waterston, R. and Wilson, R.

TITLE WashU Zebrafish EST Project

JOURNAL Unpublished (1997)

COMMENT Contact: Steve Johnson
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu

Steve Johnson lab internal ID - P1.89 NOTE - For this library, the CLONE id field represents a position identifier on the original cDNA library preparation plate. cDNA Library Preparation: Matthew Clark; cDNA Library Arrayed by: Matthew Clark. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: Genome Systems, St. Louis, and Max Planck Institut fuer Molekulare Genetik, Berlin Tel +49 30 84 13 1235
Seq primer: -40m13 ET from Amersham
High quality sequence stop: 315.

FEATURES

source 1..348
/organism="Danio rerio"
/mol_type="mRNA"
/db_xref="taxon:7955"
/clone="3D9"
/sex="mixed"
/tissue types="pooled 26-somite embryos"
/lab host="X1-blue MRF"
/clone lib="Zebrafish ICRFzfls"
/notes="vector: pSPORT1; Site_1: NotI; Site_2: SalI; 1st strand cDNA was primed with a Not I - oligo (GT)15 primer [5'pGACTAGTTCTAGATCCGAGCGCCGCTTTTCTTTTCTT3'], on mRNA from pooled 26 somite zebrafish embryos;
double-stranded cDNA was ligated to Sal I adaptors (BRL), digested with Not I and cloned into the Not I and Sal I sites of the pSPORT1 vector (BRL). Library was constructed by Matthew Clark (Lehrach lab; ICRF, London and Max Planck Institut fuer Molekulare Genetik, Berlin) and was not biochemically normalised. 70,000 clones from this library were arrayed on high density filters and subsequently screened by oligonucleotide hybridization fingerprinting to identify unique or minimally redundant clones for more intensive analysis."

ORIGIN

Query Match 72.7%; Score 16; DB 9; Length 348;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAGCCCGGAGACGTA 18
|||||

Db 196 AAGCCCGGAGACGTA 181
|||||

RESULT 7

LOCUS BI897005

DEFINITION FK52e10.y1 Zebrafish 15-19hr embryonic cDNA Danio rerio cDNA 5', mRNA sequence.

ACCESSION BI897005

VERSION BI897005.1 GI:16140141

KEYWORDS EST.

SOURCE Danio rerio (zebrafish)

ORGANISM Danio rerio

REFERENCE 1 (bases 1 to 367)

AUTHORS Clark, M., Lebrach, H., Appel, B., Eisen, J., Johnson, S., Marra, M., Eddy, S., Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S., Kucaba, T., Lacy, M., Le, N., Lennon, G., Martin, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie, T., Waterston, R. and Wilson, R.

TITLE WashU Zebrafish EST Project

JOURNAL Unpublished (1997)

COMMENT Contact: Steve Johnson
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: zbrafish@watson.wustl.edu

Library constructed by: Bernhard Korn DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: RessourcenzentrumPrimarDatenbank, Berlin, Germany (web address: www.rzpd.de)

zebrafish identity (p-value greater than 1e-99) found to:
gi|2230492|gb|AA497171|AA497171 fa01g09.s1 Zebrafish ICRFzfls Danio rerio cDNA
Seq primer: T3 ET from Amersham
High quality sequence stop: 320.

FEATURES

source 1..367
/organism="Danio rerio"
/mol_type="mRNA"
/strain="unspecified"
/db_xref="taxon:7955"
/sex="mixed"
/dev stage="15-19 hour embryo"
/lab host="E.Coli (DH10B/XL2blue)"
/clone lib="Zebrafish 15-19hr embryonic cDNA"
/notes="vector: pSPORT1; Site_1: NotI; Site_2: SalI; This Zebrafish library was constructed by Dr. Bernhard Korn (email: b.korn@kiz-heidelberg.de). RZPD library number: 717"

ORIGIN

Query Match 72.7%; Score 16; DB 12; Length 367;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAGCCCGGAGACGTA 18
|||||

Db 250 AAGCCCGGAGACGTA 265
|||||

RESULT 8

LOCUS BI897004/c

DEFINITION FK52e10.x1 Zebrafish 15-19hr embryonic cDNA Danio rerio cDNA 3', mRNA sequence.

ACCESSION BI897004

VERSION BI897004.1 GI:16140140

KEYWORDS EST.

SOURCE Danio rerio (zebrafish)

ORGANISM Danio rerio

REFERENCE 1 (bases 1 to 371)

AUTHORS Clark, M., Johnson, S., Lebrach, H., Lee, R., Li, F., Marra, M., Eddy, S., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R.

TITLE WashU Zebrafish EST Project

JOURNAL Unpublished (1998)

COMMENT Contact: Stephen L. Johnson
Washington University School of Medicine

AUTHORS Clark, M., Johnson, S., Lebrach, H., Lee, R., Li, F., Marra, M., Eddy, S., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R.

TITLE WashU Zebrafish EST Project 1998

JOURNAL Unpublished (1998)

COMMENT Other_ESTs: FK52e10.x1
Contact: Stephen L. Johnson
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: zbrafish@watson.wustl.edu

Library constructed by: Bernhard Korn DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: RessourcenzentrumPrimarDatenbank, Berlin, Germany (web address: www.rzpd.de)

zebrafish identity (p-value greater than 1e-99) found to:
gi|2230492|gb|AA497171|AA497171 fa01g09.s1 Zebrafish ICRFzfls Danio rerio cDNA
Seq primer: T3 ET from Amersham
High quality sequence stop: 320.

FEATURES

source 1..367
/organism="Danio rerio"
/mol_type="mRNA"
/strain="unspecified"
/db_xref="taxon:7955"
/sex="mixed"
/dev stage="15-19 hour embryo"
/lab host="E.Coli (DH10B/XL2blue)"
/clone lib="Zebrafish 15-19hr embryonic cDNA"
/notes="vector: pSPORT1; Site_1: NotI; Site_2: SalI; This Zebrafish library was constructed by Dr. Bernhard Korn (email: b.korn@kiz-heidelberg.de). RZPD library number: 717"

ORIGIN

Query Match 72.7%; Score 16; DB 12; Length 367;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAGCCCGGAGACGTA 18
|||||

Db 250 AAGCCCGGAGACGTA 265
|||||

RESULT 8

LOCUS BI897004/c

DEFINITION FK52e10.x1 Zebrafish 15-19hr embryonic cDNA Danio rerio cDNA 3', mRNA sequence.

ACCESSION BI897004

VERSION BI897004.1 GI:16140140

KEYWORDS EST.

SOURCE Danio rerio (zebrafish)

ORGANISM Danio rerio

REFERENCE 1 (bases 1 to 371)

AUTHORS Clark, M., Johnson, S., Lebrach, H., Lee, R., Li, F., Marra, M., Eddy, S., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R.

TITLE WashU Zebrafish EST Project 1998

JOURNAL Unpublished (1998)

COMMENT Contact: Stephen L. Johnson
Washington University School of Medicine

double-stranded cDNA was ligated to Sal I adaptors (BRL), digested with Not I and cloned into the Not I and Sal I sites of the pSPORT1 vector (BRL). Library was constructed by Matthew Clark (Lehrach lab; ICRF, London and Max Planck Institut fuer Molekulare Genetik, Berlin). cDNAs for EST analysis were selected following oligonucleotide hybridization fingerprinting of arrayed clones from zebrafish late somitogenesis (26 ss), adult liver or embryonic shield stage (5.6 h) libraries. Fingerprint data were used to computationally cluster cDNAs, and a single cDNA from each cluster was chosen for sequencing. In some cases multiple members of the same cluster were sequenced to assess clustering parameters or single clones were sequenced additional times to assess quality control."

ORIGIN

Query Match 72.7%; Score 16; DB 12; Length 445;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAGGCCCGAGACGTA 18
|||||
Db 189 AAGGCCCGAGACGTA 174

RESULT 11

BM156391/c 445 bp mRNA linear EST 26-JUL-2002
LOCUS fvl8f06.y2 zebrafish adult brain Danio rerio cDNA clone
DEFINITION IMAGE:5386907 5', mRNA sequence.

ACCESSION BM156391
VERSION BM156391.1 GI:17240087
KEYWORDS EST.

SOURCE

ORGANISM Danio rerio (zebrafish)
Danio rerio
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi;
Cypriniformes; Cyprinidae; Danio.

REFERENCE

AUTHORS Clark, M., Johnson, S.L., Lehrach, H., Lee, R., Li, F., Marra, M., Eddy, S., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R.
WashU Zebrafish EST Project 1998
Unpublished (1998)
Other ESTs: fvl8f06.x2

TITLE

WashU Zebrafish EST Project 1998

JOURNAL

COMMENT Contact: Stephen L. Johnson
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810

Email: zbrfish@watson.wustl.edu

cDNA Library Preparation: John Ngai. cDNA Library Arrayed by: Matthew Clark. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: Genome Systems, St. Louis, Missouri (web address: www.genomesystems.com) (email contact: info@genomesystems.com) and Research Genetics, Huntsville, Alabama (web address: www.resgen.com) (email contact: info@resgen.com) and RessourcenzentrumPrimarDatenbank, Berlin, Germany (web address: www.rzpd.de)

Putative full length read

The vector to vector length is 522

Seq primer: T7.

FEATURES

source

Location/Qualifiers
1..445
/organism="Danio rerio"
/mol_type="mRNA"
/db_xref="taxon:7955"
/clone="IMAGE:5386907"
/sex="mixed male and female"

/tissue_type="brain"
/dev_stage="adult"
/lab_host="E. coli DH10B"
/clone_lib="zebrafish adult brain"
/note="vector: pZIPLOX; Site_1: NotI; Site_2: SalI; Mass
Original library was constructed in lambdaZAPLOX. Mass
excision of the cDNA library was performed to yield
pZIPLOX plasmids. Insert check was done in original
library."

ORIGIN

Query Match 72.7%; Score 16; DB 12; Length 445;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAGGCCCGAGACGTA 18
|||||
Db 16 AAGGCCCGAGACGTA 1

RESULT 12

BI533213/c 448 bp mRNA linear EST 26-JUL-2002
LOCUS fr79a06.x1 zebrafish adult brain Danio rerio cDNA clone
DEFINITION IMAGE:4966930 3', mRNA sequence.

ACCESSION BI533213
VERSION BI533213.1 GI:15373780
KEYWORDS EST.

SOURCE

ORGANISM Danio rerio (zebrafish)
Danio rerio
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi;
Cypriniformes; Cyprinidae; Danio.

REFERENCE

AUTHORS Clark, M., Johnson, S.L., Lehrach, H., Lee, R., Li, F., Marra, M., Eddy, S., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R.
WashU Zebrafish EST Project 1998
Unpublished (1998)
Contact: Stephen L. Johnson
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810

Email: zbrfish@watson.wustl.edu

cDNA Library Preparation: John Ngai. cDNA Library Arrayed by: Matthew Clark. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: Genome Systems, St. Louis, Missouri (web address: www.genomesystems.com) (email contact: info@genomesystems.com) and Research Genetics, Huntsville, Alabama (web address: www.resgen.com) (email contact: info@resgen.com) and RessourcenzentrumPrimarDatenbank, Berlin, Germany (web address: www.rzpd.de)

zebrafish identity (p-value greater than 1e-99) found to:
gi12230492|gb|AA497171|AA497171 fa01g09.s1 Zebrafish ICRFzfls Danio
rerio cDNA
Seq primer: -40UP
High quality sequence stop: 408.
Location/Qualifiers
1..448
/organism="Danio rerio"
/mol_type="mRNA"
/db_xref="taxon:7955"
/clone="IMAGE:4966930"
/sex="mixed male and female"
/tissue_type="brain"
/dev_stage="adult"
/lab_host="E. coli DH10B"
/clone_lib="zebrafish adult brain"
/note="vector: pZIPLOX; Site_1: NotI; Site_2: SalI;

Original library was constructed in lambdaZIPLOX. Mass
excision of the cDNA library was performed to yield
pZIPLOX plasmids. Insert check was done in original
library."

ORIGIN

Query Match 72.7%; Score 16; DB 12; Length 448;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAGGCCCGAGACGTA 18
|||||
Db 181 AAGGCCCGAGACGTA 166
|||||

RESULT 13

BM102203/c
LOCUS BM102203 452 bp mRNA linear EST 26-JUL-2002
DEFINITION fvi4d10.x1 zebrafish adult brain Danio rerio cDNA clone
IMAGE:5386435 3', mRNA sequence.

ACCESSION BM102203

VERSION

BM102203.1 GI:17033271

KEYWORDS

EST.

SOURCE

Danio rerio (zebrafish)

ORGANISM

Danio rerio

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Actinopterygii; Neopterygii; Teleostei; Ostariophysi;

Cypriniformes; Cyprinidae; Danio.

1 (bases 1 to 452)

Clark, M., Johnson, S.L., Lehrach, H., Lee, R., Li, F., Marra, M.,

Eddy, S., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T.,

Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y.,

Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R.,

Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R.,

Waterston, R., and Wilson, R.

WashU Zebrafish EST Project 1998

Unpublished (1998)

Contact: Stephen L. Johnson

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA

Tel: 314 286 1800

Fax: 314 286 1810

Email: zbrafish@watson.wustl.edu

cDNA Library Preparation: John Ngai. cDNA Library Arrayed by:

Matthew Clark. DNA Sequencing by: Washington University Genome

Sequencing Center Clone Distribution: Genome Systems, St. Louis,

Missouri (web address: www.genomesystems.com) (email contact:

info@genomesystems.com) and Research Genetics, Huntsville, Alabama

(web address: www.resgen.com) (email contact: info@resgen.com) and

RessourcenZentrumPrimarDatenbank, Berlin, Germany (web address:

www.rzpd.de)

zebrafish identity (p-value greater than 1e-99) found to:

gi|2230492|gb|AA497171|AA497171 fa01g09.s1 Zebrafish ICRFzfls Danio

rerio cDNA

Seq primer: -40UP

High quality sequence stop: 451.

Location/Qualifiers

1..452

/organism="Danio rerio"

/mol_type="mRNA"

/db_xref="taxon:7955"

/clone="IMAGE:5386435"

/sex="mixed male and female"

/tissue_type="brain"

/dev_stage="adult"

/lab_host="E. coli DH10B"

/clone_lib="zebrafish adult brain"

/note="Vector: pZIPLOX; Site 1: NotI; Site 2: SalI;

Original library was constructed in lambdaZIPLOX. Mass

excision of the cDNA library was performed to yield

pZIPLOX plasmids. Insert check was done in original

library."

ORIGIN

Query Match 72.7%; Score 16; DB 12; Length 458;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAGGCCCGAGACGTA 18

|||||

Db 93 AAGGCCCGAGACGTA 78

|||||

Query Match 72.7%; Score 16; DB 12; Length 452;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAGGCCCGAGACGTA 18

|||||

Db 180 AAGGCCCGAGACGTA 165

|||||

RESULT 14

BI896999/c

LOCUS BI896999

DEFINITION fK50e03.x1 Zebrafish 15-19hr embryonic cDNA Danio rerio cDNA 3',

mRNA sequence.

ACCESSION BI896999

VERSION BI896999.1

KEYWORDS 'GI:16140135

EST.

SOURCE Danio rerio (zebrafish)

ORGANISM Danio rerio

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Actinopterygii; Neopterygii; Teleostei; Ostariophysi;

Cypriniformes; Cyprinidae; Danio.

1 (bases 1 to 458)

Clark, M., Johnson, S.L., Lehrach, H., Lee, R., Li, F., Marra, M.,

Eddy, S., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T.,

Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y.,

Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R.,

Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R.,

Waterston, R., and Wilson, R.

WashU Zebrafish EST Project 1998

Unpublished (1998)

Other ESTs: fK50e03.y1

Contact: Stephen L. Johnson

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA

Tel: 314 286 1800

Fax: 314 286 1810

Email: zbrafish@watson.wustl.edu

Library constructed by: Bernhard Korn DNA Sequencing by: Washington

University Genome Sequencing Center Clone Distribution:

RessourcenZentrumPrimarDatenbank, Berlin, Germany (web address:

www.rzpd.de)

zebrafish identity (p-value greater than 1e-99) found to:

gi|2230492|gb|AA497171|AA497171 fa01g09.s1 Zebrafish ICRFzfls Danio

rerio cDNA

Seq primer: T7 from Gibco

High quality sequence stop: 434.

Location/Qualifiers

1..458

/organism="Danio rerio"

/mol_type="mRNA"

/strain="unspecified"

/db_xref="taxon:7955"

/sex="mixed"

/dev_stage="15-19 hour embryo"

/lab_host="E. coli (DH10B/XL2blue)"

/clone_lib="Zebrafish 15-19hr embryonic cDNA"

/note="Vector: pSPORT1; Site 1: NotI; Site 2: SalI; This

zebrafish library was constructed by Dr. Bernhard Korn

(email: b.korn@dkfz-heidelberg.de). RZPD library number:

717"

ORIGIN

```

RESULT 15
BI708149/c
LOCUS      BI708149
DEFINITION BI708149 459 bp mRNA linear EST 19-SEP-2001
IMAGE:5070534 3', mRNA sequence.
ACCESSION BI708149
VERSION   BI708149.1 GI:15683844
KEYWORDS  EST
SOURCE    Danio rerio (zebrafish)
ORGANISM  Danio rerio
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Actinopterygii; Neopterygii; Teleostei; Ostariophysi;
            Cypriniformes; Cyprinidae; Danio.
REFERENCE  1 (bases 1 to 459)
AUTHORS    Clark, M., Johnson, S.L., Lehrach, H., Lee, R., Li, F., Marra, M.,
            Eddy, S., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, I.,
            Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y.,
            Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R.,
            Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R.,
            Waterston, R. and Wilson, R.
            WashU Zebrafish EST Project 1998
            Unpublished (1998)
            Other_ESTs: fs42g04.y1
            Contact: Stephen L. Johnson
            Washington University School of Medicine
            4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
            Tel: 314 286 1800
            Fax: 314 286 1810
            Email: zbrfish@watson.wustl.edu
            CDNA Library Preparation: John Ngai CDNA Library Arrayed by:
            Matthew Clark. DNA Sequencing by: Washington University Genome
            Sequencing Center Clone Distribution: Genome Systems, St. Louis,
            Missouri (web address: www.genomesystems.com) (email contact:
            info@genomesystems.com) and Research Genetics, Huntsville, Alabama
            (web address: www.resgen.com) (email contact: info@resgen.com) and
            RessourcenZentrumPrimaDataBank, Berlin, Germany (web address:
            www.rzpd.de)
            zebrafish identity (p-value greater than 1e-99) found to:
            gi|2230492|gb|AA497171|AA497171 fa01g09.s1 Zebrafish ICRPzfls Danio
            rerio cDNA
            Seq primer: T7 from Gibco
            High quality sequence stop: 440.
FEATURES             source
     1..459
         /organism="Danio rerio"
         /mol_type="mRNA"
         /db_xref="taxon:7955"
         /clone="IMAGE:5070534"
         /sex="mixed"
         /tissue_type="Olfactory rosettes"
         /dev_stage="adult"
         /lab_host="D10Hb (Gibco BRL)"
         /clone_lib="Zebrafish adult olfactory"
         /note="Vector: pSPORT1; Site 1: NotI; Site 2: SalI; This
         is a directionally cloned cDNA library from adult
         Zebrafish olfactory epithelium."
ORIGIN
Query Match      72.7%; Score 16; DB 12; Length 459;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3  AAGGCCCGAGACGTA 18
      |||||||||
Db      167 AAGGCCCGAGACGTA 152

Search completed: August 4, 2004, 09:20:54
Job time : 1535.58 secs

```

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 04:00:30 ; Search time 164.337 Seconds
(without alignments)
517.009 Million cell updates/sec

Title: US-09-940-860-2

Perfect score: 20

Sequence: 1 ggaggaaagcgaggatgacg 20

Scoring table:

OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 3373863 seqs, 2124099041 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : N Geneseq 29Jan04:*

1: Geneseqn1980s:*

2: Geneseqn1990s:*

3: Geneseqn2000s:*

4: Geneseqn2001as:*

5: Geneseqn2001bs:*

6: Geneseqn2002s:*

7: Geneseqn2003as:*

8: Geneseqn2003bs:*

9: Geneseqn2003cs:*

10: Geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	1172	3	AAA37798 Helicobac
2	20	100.0	1194	3	AAA37797 Helicobac
3	20	100.0	1236	3	AAA37796 Helicobac
4	20	100.0	1267	3	AAA37795 Helicobac
5	20	100.0	1299	3	AAA37794 Helicobac
6	20	100.0	1331	3	AAA37793 Helicobac
7	20	100.0	1335	3	AAA37791 Helicobac
8	20	100.0	1548	2	AAV66849 Chlamydia
9	20	100.0	1548	2	AAV66846 Chlamydia
10	20	100.0	1548	2	AAV66848 Chlamydia
11	20	100.0	1548	2	AAV66845 Chlamydia
12	20	100.0	1548	2	AAV66850 Chlamydia
13	20	100.0	1548	2	AAV66847 Chlamydia
14	20	100.0	1548	5	AAV66847 Chlamydia
15	20	100.0	1549	2	AAV66851 Chlamydia
16	20	100.0	2751	4	AAH28376 Intergeri
17	20	100.0	2762	4	AAH28407 Intergeri
18	20	100.0	110000	2	AAH28407 Intergeri
19	20	100.0	110000	2	AAH28407 Intergeri
20	17	85.0	1073	7	Continuation (11 o
21	16	80.0	1251	7	AB34585 Coding se
22	16	80.0	3264	7	ACA30087 Prokaryot
23	16	80.0	5536	4	ADA69779 Rice gene
					AAS46575 Tumour su

RESULT 1

AAA37798	16	80.0	5536	6	ABL33832	Human imm
ID	AAA37798	standard; DNA; 1172 BP.				
XX	AAA37798					
AC	AAA37798					
DT	15-SEP-2003	(revised)				
DT	15-JAN-2001	(first entry)				
XX	Helicobacter 16S rRNA DNA sequence R38TOTALL.					
XX	Helicobacter; 16S rRNA; detection; strain identification; gastric ulcer;					
KW	chronic gastritis; zoonoses; ss.					
XX	Candidatus Helicobacter bovis.					
OS	Helicobacter bovis.					
PN	EP1035219-A1.					
XX	13-SEP-2000.					
XX	25-FEB-1999;	99EP-00870035.				
XX	25-FEB-1999;	99EP-00870035.				
PR	(UYGE-) UNIV GENT.					
XX	Ducatel R, De Groot D, Haesebrouck F, Quint W, Van Doorn L;					
XX	WPI; 2000-559879/52.					
PT	Novel isolated 16S rDNA Helicobacter polynucleotides useful as probes or					
PT	primers for detecting and/or typing Helicobacter strains present in a					
XX	biological sample.					
XX	Claim 2; Page 24-25; 132pp; English.					
XX	This sequence represents a Helicobacter 16S rRNA sequence of the					
XX	invention. A probe which specifically hybridises to the 16S rRNA sequence					
XX	and a primer which specifically amplifies it are used for detecting					
XX	and/or typing Helicobacter strains present in a biological sample					
XX	(obtained from mammals preferably cattle and pigs) by hybridising or					
XX	specifically amplifying the 16S rRNA gene target region of Helicobacter					
XX	strains present in the biological sample with the primer or probe,					
XX	respectively. The 16S rRNA sequence is also used as a medicament. The 16S					
XX	rRNA sequences are used for studying and detecting pathogenic					
XX	Helicobacter strains which cause gastric ulcers and chronic gastritis in					

ALIGNMENTS

24	16	80.0	5536	6	ABL33832	Human imm
25	15	75.0	278	6	ABQ78796	Nucleotid
26	15	75.0	281	6	ABL71499	Corn tass
27	15	75.0	294	6	ABL76470	Corn tass
28	15	75.0	308	6	ABQ78794	Nucleotid
29	15	75.0	348	4	AAI25889	Human bre
30	15	75.0	351	6	ABQ78795	Nucleotid
31	15	75.0	357	6	ABQ85719	Arabidops
32	15	75.0	358	4	AAI19054	Human bre
33	15	75.0	358	4	AAI08144	Human bre
34	15	75.0	384	5	AAI29337	DNA encod
35	15	75.0	390	5	AAI67474	Novel hum
36	15	75.0	400	5	AAI67301	Novel hum
37	15	75.0	405	5	ABV13787	Human pro
38	15	75.0	405	6	ABL1917	Human ova
39	15	75.0	417	2	AAV89330	EST clone
40	15	75.0	443	5	ABV34900	Human pro
41	15	75.0	443	5	ABV43749	Human pro
42	15	75.0	494	9	ADC76303	DNA homol
43	15	75.0	494	9	ADC76983	DNA homol
44	15	75.0	525	6	ABZ14572	Arabidops
45	15	75.0	746	3	AAC48695	Arabidops

CC mammals, particularly cattle and pigs. The method is also useful for
CC detection of zoonoses in humans. (Updated on 15-SEP-2003 to standardise
CC OS field)

XX Sequence 1172 BP; 323 A; 259 C; 345 G; 245 T; 0 U; 0 Other;
XX Query Match 100.0%; Score 20; DB 3; Length 1172;
XX Best Local Similarity 100.0%; Pred. No. 0.34; Mismatches 0; Indels 0; Gaps 0;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAGGCGGAGGATGACG 20
DB 1016 GGAGGAGGCGGAGGATGACG 1035

RESULT 2
AAA37797
ID AAA37797 standard; DNA; 1194 BP.
XX
XX AAA37797;
XX 15-SEP-2003 (revised)
XX 15-JAN-2001 (first entry)
XX Helicobacter 16SrRNA DNA sequence R27TOTAL.
XX Helicobacter; 16SrRNA; detection; strain identification; gastric ulcer;
XX Chronic gastritis; zoonoses; ss.
XX Candidatus Helicobacter bovis.
XX EPI035219-A1.
XX 13-SEP-2000.
XX 25-FEB-1999; 99EP-00870035.
XX 25-FEB-1999; 99EP-00870035.
XX (UYGE-) UNIV GENT.
XX Ducatelle R, De Grootte D, Haesebrouck F, Quint W, Van Doorn L;
XX WPI; 2000-559879/52.
XX Novel isolated 16S rDNA Helicobacter polynucleotides useful as probes or
XX primers for detecting and/or typing Helicobacter strains present in a
XX biological sample.
XX Claim 2; Page 24; 132pp; English.
XX This sequence represents a Helicobacter 16SrRNA sequence of the
XX invention. A probe which specifically hybridises to the 16SrRNA sequence
XX and a primer which specifically amplifies it are used for detecting
XX and/or typing Helicobacter strains present in a biological sample
XX (obtained from mammals preferably cattle and pigs) by hybridising or
XX specifically amplifying the 16S rRNA gene target region of Helicobacter
XX strains present in the biological sample with the primer or probe,
XX respectively. The 16S rRNA sequence is also used as a medicament. The 16S
XX rRNA sequences are used for studying and detecting pathogenic
XX Helicobacter strains which cause gastric ulcers and chronic gastritis in
XX mammals, particularly cattle and pigs. The method is also useful for
XX detection of zoonoses in humans. (Updated on 15-SEP-2003 to standardise
XX OS field)

XX Sequence 1194 BP; 327 A; 263 C; 356 G; 248 T; 0 U; 0 Other;
XX Query Match 100.0%; Score 20; DB 3; Length 1194;
XX Best Local Similarity 100.0%; Pred. No. 0.34; Mismatches 0; Indels 0; Gaps 0;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAGGCGGAGGATGACG 20
DB 1016 GGAGGAGGCGGAGGATGACG 1035

DB 1035 GGAGGAGGCGGAGGATGACG 1054

RESULT 3
AAA37796
ID AAA37796 standard; DNA; 1236 BP.
XX
XX AAA37796;
XX 15-SEP-2003 (revised)
XX 15-JAN-2001 (first entry)
XX Helicobacter 16SrRNA DNA sequence R13D001INV.
XX Helicobacter; 16SrRNA; detection; strain identification; gastric ulcer;
XX Chronic gastritis; zoonoses; ss.
XX Candidatus Helicobacter bovis.
XX EPI035219-A1.
XX 13-SEP-2000.
XX 25-FEB-1999; 99EP-00870035.
XX 25-FEB-1999; 99EP-00870035.
XX (UYGE-) UNIV GENT.
XX Ducatelle R, De Grootte D, Haesebrouck F, Quint W, Van Doorn L;
XX WPI; 2000-559879/52.
XX Novel isolated 16S rDNA Helicobacter polynucleotides useful as probes or
XX primers for detecting and/or typing Helicobacter strains present in a
XX biological sample.
XX Claim 2; Page 23-24; 132pp; English.
XX This sequence represents a Helicobacter 16SrRNA sequence of the
XX invention. A probe which specifically hybridises to the 16SrRNA sequence
XX and a primer which specifically amplifies it are used for detecting
XX and/or typing Helicobacter strains present in a biological sample
XX (obtained from mammals preferably cattle and pigs) by hybridising or
XX specifically amplifying the 16S rRNA gene target region of Helicobacter
XX strains present in the biological sample with the primer or probe,
XX respectively. The 16S rRNA sequence is also used as a medicament. The 16S
XX rRNA sequences are used for studying and detecting pathogenic
XX Helicobacter strains which cause gastric ulcers and chronic gastritis in
XX mammals, particularly cattle and pigs. The method is also useful for
XX detection of zoonoses in humans. (Updated on 15-SEP-2003 to standardise
XX OS field)

XX Sequence 1236 BP; 336 A; 271 C; 369 G; 259 T; 0 U; 1 Other;
XX Query Match 100.0%; Score 20; DB 3; Length 1236;
XX Best Local Similarity 100.0%; Pred. No. 0.34; Mismatches 0; Indels 0; Gaps 0;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAGGCGGAGGATGACG 20
DB 1058 GGAGGAGGCGGAGGATGACG 1077

RESULT 4
AAA37795
ID AAA37795 standard; DNA; 1267 BP.
XX
XX AAA37795;
XX 15-SEP-2003 (revised)
XX 15-JAN-2001 (first entry)
XX

```

DE Helicobacter 16SrRNA DNA sequence R6XA001.
XX Helicobacter; 16SrRNA; detection; strain identification; gastric ulcer;
KW chronic gastritis; zoonoses; ss.
XX
OS Candidatus Helicobacter bovis.
XX
PN EP1035219-A1.
XX
PD 13-SEP-2000.
XX
XX
PF 25-FEB-1999; 99EP-00870035.
XX
PR 25-FEB-1999; 99EP-00870035.
XX
PA (UYGE-) UNIV GENT.
XX
XX Ducatelle R, De Groote D, Haesebrouck F, Quint W, Van Doorn L;
XX WPI; 2000-559879/52.
DR
XX Novel isolated 16S rDNA Helicobacter polynucleotides useful as probes or
PT primers for detecting and/or typing Helicobacter strains present in a
PT biological sample.
XX
PS Claim 2; Page 23; 132pp; English.
XX
XX This sequence represents a Helicobacter 16SrRNA sequence of the
CC invention. A probe which specifically hybridises to the 16SrRNA sequence
CC and a primer which specifically amplifies it are used for detecting
CC and/or typing Helicobacter strains present in a biological sample
CC (obtained from mammals preferably cattle and pigs) by hybridising or
CC specifically amplifying the 16S rRNA gene target region of Helicobacter
CC strains present in the biological sample with the primer or probe,
CC respectively. The 16S rRNA sequence is also used as a medicament. The 16S
CC rRNA sequences are used for studying and detecting pathogenic
CC Helicobacter strains which cause gastric ulcers and chronic gastritis in
CC mammals, particularly cattle and pigs. The method is also useful for
CC detection of zoonoses in humans. (Updated on 15-SEP-2003 to standardise
CC OS field)
XX
SQ Sequence 1267 BP; 350 A; 272 C; 375 G; 270 T; 0 U; 0 Other;
Query Match 100.0%; Score 20; DB 3; Length 1267;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAGGAAGCGGAGGATGACG 20
DB 1072 GGAGGAAGCGGAGGATGACG 1091
RESULT 5
AAA37794
ID AAA37794 standard; DNA; 1299 BP.
AC AAA37794;
XX
XX 15-SEP-2003 (revised)
DT 15-JAN-2001 (first entry)
XX
DE Helicobacter 16SrRNA DNA sequence R3XA001.
XX
KW Helicobacter; 16SrRNA; detection; strain identification; gastric ulcer;
XX chronic gastritis; zoonoses; ss.
XX
OS Candidatus Helicobacter bovis.
XX
PN EP1035219-A1.
XX
XX
PD 13-SEP-2000.
XX
XX
PF 25-FEB-1999; 99EP-00870035.
XX

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XX 25-FEB-1999; 99EP-00870035.
XX (UYGE-) UNIV GENT.
XX
XX Ducatelle R, De Groote D, Haesebrouck F, Quint W, Van Doorn L;
XX WPI; 2000-559879/52.
DR
XX Novel isolated 16S rDNA Helicobacter polynucleotides useful as probes or
PT primers for detecting and/or typing Helicobacter strains present in a
PT biological sample.
XX
PS Claim 2; Page 22-23; 132pp; English.
XX
XX This sequence represents a Helicobacter 16SrRNA sequence of the
CC invention. A probe which specifically hybridises to the 16SrRNA sequence
CC and a primer which specifically amplifies it are used for detecting
CC and/or typing Helicobacter strains present in a biological sample
CC (obtained from mammals preferably cattle and pigs) by hybridising or
CC specifically amplifying the 16S rRNA gene target region of Helicobacter
CC strains present in the biological sample with the primer or probe,
CC respectively. The 16S rRNA sequence is also used as a medicament. The 16S
CC rRNA sequences are used for studying and detecting pathogenic
CC Helicobacter strains which cause gastric ulcers and chronic gastritis in
CC mammals, particularly cattle and pigs. The method is also useful for
CC detection of zoonoses in humans. (Updated on 15-SEP-2003 to standardise
CC OS field)
XX
SQ Sequence 1299 BP; 357 A; 283 C; 385 G; 274 T; 0 U; 0 Other;
Query Match 100.0%; Score 20; DB 3; Length 1299;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAGGAAGCGGAGGATGACG 20
DB 1103 GGAGGAAGCGGAGGATGACG 1122
RESULT 6
AAA37793
ID AAA37793 standard; DNA; 1331 BP.
AC AAA37793;
XX
XX 15-SEP-2003 (revised)
DT 15-JAN-2001 (first entry)
XX
DE Helicobacter 16SrRNA DNA sequence RSXE001.
XX
KW Helicobacter; 16SrRNA; detection; strain identification; gastric ulcer;
XX chronic gastritis; zoonoses; ss.
XX
OS Candidatus Helicobacter bovis.
XX
PN EP1035219-A1.
XX
XX 13-SEP-2000.
PD
XX
PF 25-FEB-1999; 99EP-00870035.
XX
XX 25-FEB-1999; 99EP-00870035.
PR
XX (UYGE-) UNIV GENT.
XX
XX Ducatelle R, De Groote D, Haesebrouck F, Quint W, Van Doorn L;
XX WPI; 2000-559879/52.
DR
XX Novel isolated 16S rDNA Helicobacter polynucleotides useful as probes or
PT primers for detecting and/or typing Helicobacter strains present in a
PT biological sample.

```

XX Claim 2; Page 22; 132pp; English.

XX This sequence represents a Helicobacter 16S rRNA sequence of the

CC invention. A probe which specifically hybridises to the 16S rRNA sequence

CC and a primer which specifically amplifies it are used for detecting

CC and/or typing Helicobacter strains present in a biological sample

CC (obtained from mammals preferably cattle and pigs) by hybridising or

CC specifically amplifying the 16S rRNA gene target region of Helicobacter

CC strains present in the biological sample with the primer or probe,

CC respectively. The 16S rRNA sequence is also used as a medicament. The 16S

CC rRNA sequences are used for studying and detecting pathogenic

CC Helicobacter strains which cause gastric ulcers and chronic gastritis in

CC mammals, particularly cattle and pigs. The method is also useful for

CC detection of zoonoses in humans. (Updated on 15-SEP-2003 to standardise

CC OS field)

XX SQ Sequence 1331 BP; 366 A; 292 C; 389 G; 284 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 3; Length 1331;

Best Local Similarity 100.0%; Pred. No. 0.33;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAGGAAGCGGAGGATGACG 20

Db 1103 GGAGGAAGCGGAGGATGACG 1122

RESULT 7

AAA37791

ID AAA37791 standard; DNA; 1335 BP.

XX AC AAA37791;

XX 15-SEP-2003 (revised)

DT 15-JAN-2001 (first entry)

XX Helicobacter 16S rRNA DNA sequence R2XA001.

XX Helicobacter; 16S rRNA; detection; strain identification; gastric ulcer;

KW chronic gastritis; zoonoses; ss.

XX Candidatus Helicobacter bovis.

XX EF1035219-A1.

XX 13-SEP-2000.

XX 25-FEB-1999; 99EP-00870035.

XX 25-FEB-1999; 99EP-00870035.

XX (UYGE-) UNIV GENT.

XX Ducatelle R. De Grootte D. Haesebrouck F. Quint W. Van Doorn L;

XX WPI; 2000-559879/52.

XX Novel isolated 16S rRNA Helicobacter polynucleotides useful as probes or

PT primers for detecting and/or typing Helicobacter strains present in a

PT biological sample.

XX Claim 1; Page 19; 132pp; English.

XX This sequence represents a Helicobacter 16S rRNA sequence of the

CC invention. A probe which specifically hybridises to the 16S rRNA sequence

CC and a primer which specifically amplifies it are used for detecting

CC and/or typing Helicobacter strains present in a biological sample

CC (obtained from mammals preferably cattle and pigs) by hybridising or

CC specifically amplifying the 16S rRNA gene target region of Helicobacter

CC strains present in the biological sample with the primer or probe,

CC respectively. The 16S rRNA sequence is also used as a medicament. The 16S

CC rRNA sequences are used for studying and detecting pathogenic

CC Helicobacter strains which cause gastric ulcers and chronic gastritis in

CC mammals, particularly cattle and pigs. The method is also useful for

CC detection of zoonoses in humans. (Updated on 15-SEP-2003 to standardise

CC OS field)

XX SQ Sequence 1335 BP; 364 A; 294 C; 393 G; 284 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 3; Length 1335;

Best Local Similarity 100.0%; Pred. No. 0.33;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAGGAAGCGGAGGATGACG 20

Db 1103 GGAGGAAGCGGAGGATGACG 1122

RESULT 8

AAV66849

ID AAV66849 standard; DNA; 1548 BP.

XX AC AAV66849;

XX 17-OCT-2003 (revised)

DT 06-JAN-1999 (first entry)

XX Chlamydia 16S ribosome RNA gene #5.

DE Chlamydia genus; microbe; bird-hosted; 16S ribosome RNA; detection; ds.

KW Chlamydia genus; microbe; bird-hosted; 16S ribosome RNA; detection; ds.

XX Chlamydia 16S ribosome RNA gene #5.

XX Chlamydia genus; microbe; bird-hosted; 16S ribosome RNA; detection; ds.

OS Chlamydia genus; microbe; bird-hosted; 16S ribosome RNA; detection; ds.

PN JP10262679-A.

XX 06-OCT-1998.

PD 28-MAR-1997; 97JP-00078591.

PF 28-MAR-1997; 97JP-00078591.

XX 28-MAR-1997; 97JP-00078591.

PR (ATAT-) A & T KK.

PA (TOKU) TOKUYAMA SODA KK.

XX WPI; 1998-587294/50.

XX Chlamydia species ribosome genes, and primers derived from it - used for

PT the nucleic acid amplification detection of Chlamydia species.

XX Claim 1; Page 15; 18pp; Japanese.

XX The present sequence represents a gene coding Chlamydia 16S ribosome RNA

CC from Chlamydia pecorum. Also described in the present invention are: (1)

CC a recombinant vector containing the above gene; and (2) a transformant

CC transformed by the above recombinant vector. The nucleic acid, and

CC primers which can hybridise to it, are used for the specific nucleic acid

CC amplification detection of a Chlamydia genus microbe i.e. detection of

CC PCR products. (Updated on 17-OCT-2003 to standardise OS field)

XX SQ Sequence 1548 BP; 402 A; 318 C; 460 G; 368 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 2; Length 1548;

Best Local Similarity 100.0%; Pred. No. 0.33;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAGGAAGCGGAGGATGACG 20

Db 1176 GGAGGAAGCGGAGGATGACG 1195

RESULT 9

AAV66846

ID AAV66846 standard; DNA; 1548 BP.

XX AC AAV66846;

DR WPI; 1998-587294/50.

XX Chlamydia species ribosome genes, and primers derived from it - used for
PT the nucleic acid amplification detection of Chlamydia species.

XX

XX

XX PS; 14-15; 18pp; Japanese.

XX

XX The present sequence represents a gene coding Chlamydia 16S ribosome RNA
CC from Chlamydia psittaci. Also described in the present invention are: (1)
CC a recombinant vector containing the above gene; and (2) a transformant
CC transformed by the above recombinant vector. The nucleic acid, and
CC primers which can hybridise to it, are used for the specific nucleic acid
CC amplification detection of a Chlamydia genus microbe i.e. detection of
CC PCR products. (Updated on 17-OCT-2003 to standardise OS field)

XX

XX

XX Sequence 1548 BP; 410 A; 328 C; 452 G; 358 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 2; Length 1548;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAGCGGAGGATGACG 20
|||||

Db 1178 GGAGGAGCGGAGGATGACG 1197

RESULT 11

AAV66845

ID AAV66845 standard; DNA; 1548 BP.

XX AC AAV66845;

XX

XX 17-OCT-2003 (revised)

DT 06-JAN-1999 (first entry)

XX

XX Chlamydia 16S ribosome RNA gene #1.

XX

XX Chlamydia genus; microbe; bird-hosted; 16S ribosome RNA; detection; ds.

XX

XX Chlamydogophila caviae.

XX

XX JF10262679-A.

XX

XX 06-OCT-1998.

XX

XX 28-MAR-1997; 97JF-00078591.

XX

XX 28-MAR-1997; 97JF-00078591.

PR

XX (ATAT-) A & T KK.

PA (TOKU) TOKUYAMA SODA KK.

XX

XX WPI; 1998-587294/50.

XX

XX Chlamydia species ribosome genes, and primers derived from it - used for
PT the nucleic acid amplification detection of Chlamydia species.

XX

XX Claim 1; Page 13; 18pp; Japanese.

XX

XX The present sequence represents a gene coding Chlamydia 16S ribosome RNA
CC from Chlamydia psittaci. Also described in the present invention are: (1)
CC a recombinant vector containing the above gene; and (2) a transformant
CC transformed by the above recombinant vector. The nucleic acid, and
CC primers which can hybridise to it, are used for the specific nucleic acid
CC amplification detection of a Chlamydia genus microbe i.e. detection of
CC PCR products. (Updated on 17-OCT-2003 to standardise OS field)

XX

XX

XX Sequence 1548 BP; 413 A; 323 C; 453 G; 359 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 2; Length 1548;
Best Local Similarity 100.0%; Pred. No. 0.33;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGCGGAGGATGACG 20
 DB 1178 GGAGGAAGCGGAGGATGACG 1197

RESULT 12

AAV66850
 ID AAV66850 standard; DNA; 1548 BP.
 XX AC AAV66850;

XX DT 06-JAN-1999 (first entry)

XX DE Chlamydia 16S ribosome RNA gene #6.

XX KW Chlamydia genus; microbe; bird-hosted; 16S ribosome RNA; detection; ds.

XX OS Chlamydia trachomatis.

XX PN JP10262679-A.

XX PD 06-OCT-1998.

XX PF 28-MAR-1997; 97JP-00078591.

XX PR 28-MAR-1997; 97JP-00078591.

XX PA (ATAT-) A & T KK.

XX PA (TOKU) TOKUYAMA SODA KK.

XX DR WPI; 1998-587294/50.

XX KW Chlamydia species ribosome genes, and primers derived from it - used for the nucleic acid amplification detection of Chlamydia species.

PS Claim 1; Page 16; 18pp; Japanese.

XX CC The present sequence represents a gene coding Chlamydia 16S ribosome RNA from Chlamydia trachomatis. Also described in the present invention are:
 CC (1) a recombinant vector containing the above gene; and (2) a
 CC transformant transformed by the above recombinant vector. The nucleic
 CC acid, and primers which can hybridise to it, are used for the specific
 CC nucleic acid amplification detection of a Chlamydia genus microbe i.e.
 CC detection of PCR products

XX SQ Sequence 1548 BP; 402 A; 326 C; 470 G; 350 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 2; Length 1548;
 Best Local Similarity 100.0%; Pred. No. 0.33;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGCGGAGGATGACG 20
 DB 1179 GGAGGAAGCGGAGGATGACG 1198

RESULT 13

AAV66847
 ID AAV66847 standard; DNA; 1548 BP.
 XX AC AAV66847;

XX DT 17-OCT-2003 (revised)

XX DT 06-JAN-1999 (first entry)

XX DE Chlamydia 16S ribosome RNA gene #3.

XX KW Chlamydia genus; microbe; bird-hosted; 16S ribosome RNA; detection; ds.

XX OS Chlamydia caviae.

XX PN JP10262679-A.

PD 06-OCT-1998.

XX PF 28-MAR-1997; 97JP-00078591.

XX PR 28-MAR-1997; 97JP-00078591.

XX PA (ATAT-) A & T KK.

XX PA (TOKU) TOKUYAMA SODA KK.

XX DR WPI; 1998-587294/50.

XX KW Chlamydia species ribosome genes, and primers derived from it - used for the nucleic acid amplification detection of Chlamydia species.

PS Claim 1; Page 14; 18pp; Japanese.

XX CC The present sequence represents a gene coding Chlamydia 16S ribosome RNA from Chlamydia psittaci. Also described in the present invention are: (1)
 CC a recombinant vector containing the above gene; and (2) a transformant
 CC transformed by the above recombinant vector. The nucleic acid, and
 CC primers which can hybridise to it, are used for the specific nucleic acid
 CC amplification detection of a Chlamydia genus microbe i.e. detection of
 CC PCR products. (Updated on 17-OCT-2003 to standardise OS field)

XX SQ Sequence 1548 BP; 415 A; 328 C; 451 G; 354 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 2; Length 1548;

Best Local Similarity 100.0%; Pred. No. 0.33;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGCGGAGGATGACG 20

DB 1178 GGAGGAAGCGGAGGATGACG 1197

RESULT 14

AAV11031
 ID AAV11031 standard; DNA; 1548 BP.

XX AC AAV11031;

XX DT 06-AUG-2003 (revised)

XX DT 24-OCT-2001 (first entry)

XX DE Chlamydia trachomatis 16S ribosomal RNA gene.

XX KW Antisense; bacterial 16S ribosomal RNA; rRNA; bacterial infection; human;
 XX food grain supplement; livestock; poultry; therapeutic; ds.

XX OS Chlamydia trachomatis.

XX FN WO200142457-A2.

XX PD 14-JUN-2001.

XX PF 29-NOV-2000; 2000WO-US042391.

XX PR 29-NOV-1999; 99US-0168150P.

XX PA (AVIB-) AVI BIOPHARMA INC.

XX PI Iversen PL;

XX DR WPI; 2001-457295/49.

XX PT Antibacterial compound, useful for treating bacterial infections and as
 PT livestock and poultry food supplement, comprises antisense
 PT oligonucleotides complementary to bacterial 16S and 23S rRNA.

XX PS Disclosure; Page; 62pp; English.

XX CC AAV11021-AAV11034 represent the coding sequences of bacterial 16S
 CC ribosomal RNA (rRNA) genes. The sequences were used to design anti-

CC bacterial compounds comprising substantially uncharged antisense
 CC oligomers containing 8-40 nucleotide subunits, including a targeting
 CC nucleic acid sequence at least 10 nucleotides in length which is
 CC complementary to a bacterial 16S or 23S rRNA nucleic acid sequence. The
 CC antisense oligomers are used for treating a bacterial infection in a
 CC human or a mammalian animal produced by *Escherichia coli*, *Salmonella*
 CC typhimurium, *Pseudomonas aeruginosa*, *Vibrio cholera*, *Neisseria*
 CC gonorrhoea, *Helicobacter pylori*, *Bartonella henselae*, *Haemophilus*
 CC influenza, *Shigella dysenteriae*, *Staphylococcus aureus*, *Mycobacterium*
 CC tuberculosis, *Sreptococcus pneumoniae*, *Treponema palladium* and *Chlamydia*
 CC trachomatis. The antibacterial compound may be used as a food grain
 CC supplement in livestock and poultry food composition. Note: The present
 CC sequence is not shown in the specification but has been accessed from
 CC GenBank using the appropriate accession number given in the
 CC specification. (Updated on 06-AUG-2003 to correct OS field.)
 XX

SQ Sequence 1548 BP; 402 A; 327 C; 468 G; 351 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 5; Length 1548;
 Best Local Similarity 100.0%; Pred. No. 0.33;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGAGGAGGCGGAGGATGACG 20
 |||||
 DB 1179 GGAGGAGGCGGAGGATGACG 1198

RESULT 15

AAV66851
 ID AAV66851 standard; DNA; 1549 BP.

AC AAV66851;

XX
 DT 06-JAN-1999 (first entry)

XX Chlamydia 16S ribosome RNA gene #7.

XX Chlamydia genus; microbe; bird-hosted; 16S ribosome RNA; detection; ds.

XX Chlamydia trachomatis.

XX JP10262679-A.

XX 06-OCT-1998.

XX 28-MAR-1997; 97JP-00078591.

XX 28-MAR-1997; 97JP-00078591.

XX (ATAT-) A & T KK.

XX (TOKU) TOKUYAMA SODA KK.

XX WPI; 1998-587294/50.

XX Chlamydia species ribosome genes, and primers derived from it - used for
 PT the nucleic acid amplification detection of Chlamydia species.

XX Claim 1; Page 16-17; 18pp; Japanese.

XX The present sequence represents a gene coding Chlamydia 16S ribosome RNA
 CC from Chlamydia trachomatis. Also described in the present invention are:
 CC (1) a recombinant vector containing the above gene; and (2) a
 CC transformant transformed by the above recombinant vector. The nucleic
 CC acid, and primers which can hybridise to it, are used for the specific
 CC nucleic acid amplification detection of a Chlamydia genus microbe i.e.
 CC detection of PCR products

XX Sequence 1549 BP; 402 A; 326 C; 470 G; 351 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 2; Length 1549;
 Best Local Similarity 100.0%; Pred. No. 0.33;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGAGGAGGCGGAGGATGACG 20
 |||||
 DB 1179 GGAGGAGGCGGAGGATGACG 1198

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 Job time : 166.337 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 05:41:25 ; Search time 1393.25 Seconds
(without alignments)
428.668 Million cell updates/sec

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Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 27513289 seqs, 14931090276 residues

Word size : 0

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	20	100.0	133	10 BE084285	BE084285 PM3-BT065
3	20	100.0	168	14 CF199424	CF199424 EST1023 T
4	20	100.0	174	14 CD088408	CD088408 MCL-0050T

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	6	20	100.0	205	14	CD164995
	7	20	100.0	214	14	H74424
c	8	20	100.0	221	9	AT000468
	9	20	100.0	243	28	BH831104
	10	20	100.0	248	14	CF338988
	11	20	100.0	275	13	EX000722
c	12	20	100.0	297	12	EG874702
c	13	20	100.0	301	12	EG874706
c	14	20	100.0	312	9	AI903266
c	15	20	100.0	312	9	AI903386
c	16	20	100.0	312	9	AI903431
c	17	20	100.0	312	9	AI903433
	18	20	100.0	332	12	BI742715
	19	20	100.0	335	10	AI903432
c	20	20	100.0	335	10	BF810332
	21	20	100.0	338	9	AI903307
c	22	20	100.0	343	12	EG875496
c	23	20	100.0	350	10	BF810203
	24	20	100.0	366	12	EG987045
	25	20	100.0	368	9	AI903306
	26	20	100.0	373	12	EG988274
	27	20	100.0	375	14	CD097562
c	28	20	100.0	382	10	BF810198
	29	20	100.0	382	14	CD164371
	30	20	100.0	391	10	BE427958
	31	20	100.0	394	28	BH819649
c	32	20	100.0	399	10	BF910944
c	33	20	100.0	407	13	BQ352721
c	34	20	100.0	409	10	AW804622
c	35	20	100.0	425	12	EG874668
	36	20	100.0	437	28	BH835798
	37	20	100.0	440	9	AU284247
	38	20	100.0	447	12	BM130023
	39	20	100.0	447	12	BM130070
c	40	20	100.0	454	14	CD091084
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	42	20	100.0	465	12	EG357866
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c	45	20	100.0	476	9	AU165135

ALIGNMENTS

RESULT 1
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DEFINITION RC-BT029-100199-113_1 BT029 Homo sapiens cDNA, mRNA sequence.
ACCESSION AI903353
VERSION AI903353.1 GI:6493740
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS
1 (bases 1 to 122)
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones M.R., Nagai M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunschein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.
Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

CONTACT: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,

Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/seq/gethtml.pl?tl=RC&t2=RC-BT029-113_1.ht
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FEATURES
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Query Match 100.0%; Score 20; DB 9; Length 122;
Best Local Similarity 100.0%; Pred. No. 0.078;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACACAGGATTAGATACCC 20
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Db 100 GCAACACAGGATTAGATACCC 81

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BE084285
LOCUS
DEFINITION
PM3-BT0654-030300-002-d12 BT0654 Homo sapiens cDNA, mRNA sequence.
ACCESSION
BE084285
VERSION
BE084285.1 GI:8474639
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
ORGANISM
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 133)
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G.H., Carvalho, A.P., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F.F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.J.
Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
10737800
Contact: Simpson A.J.J.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=at2=PM3-BT0654-030
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/note="Organ: breast; Vector: puc18; Site_1: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

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Best Local Similarity 100.0%; Pred. No. 0.079;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 21 GCAACACAGGATTAGATACCC 40

RESULT 3
CF199424/c
LOCUS
DEFINITION
EST1023 Tammarix androssowii leaf Tammarix androssowii cDNA, mRNA sequence.
ACCESSION
CF199424
VERSION
CF199424.1 GI:33393797
KEYWORDS
EST.
SOURCE
Tammarix androssowii
ORGANISM
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophytes; Magnoliophyta; eudicotyledons; core eudicots; Caryophyllales; Tamaricaceae; Tammarix.
REFERENCE
1 (bases 1 to 168)
Wang, Y., Yang, C., Jiang, J., Liu, G., Wu, J. and Liu, Z.
EST acquired from cDNA library of Tammarix androssowii treated with NAHCO3
Unpublished (2003)
Contact: Yucheng Wang
Forestry Source and Environment College
Northeast Forestry University
Hexing 26, Harbin, Heilongjiang, 150040, P.R. China
Tel: 086-451-2190607
Email: WANGYUCHENG1029@YAHOO.COM.CN.

FEATURES
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Location/Qualifiers
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Best Local Similarity 100.0%; Pred. No. 0.081;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 4
CD088408
LOCUS
DEFINITION
MCI-0050T-R112-C03-U.G MCI-0050 Schistosoma mansoni cDNA clone
ACCESSION
CD088408

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VERSION      CD088408.1  GI:34639304
KEYWORDS     EST.
SOURCE       Schistosoma mansoni
ORGANISM     Schistosoma mansoni

REFERENCE
AUTHORS      Verjovski-Almeida, S., DeMarco, R., Martins, E.A.L., Guimaraes, P.E.M.,
              Ojopi, E.P.B., Paquola, A.C.M., Piazza, J.P., Nishiyama, M.Y. Jr.,
              Kitajima, J.P., Adamson, R.E., Ashton, P.D., Bonaldo, M.F.,
              Coulson, P.S., Dillon, G.P., Farias, L.P., Gregorio, S.P., Ho, P.L.,
              Leite, R.A., Malaquias, L.C.C., Marques, R.C.P., Miyasato, P.A.,
              Nascimento, A.L.T.O., Ohlweiler, F.P., Reis, E.M., Ribeiro, M.A.,
              Sa, R.G., Stukart, G.C., Soares, M.B., Gargioni, C., Kawano, T.,
              Rodrigues, V., Madeira, A.M.B.N., Wilson, R.A., Menck, C.F.M.,
              Setubal, J.C., Leite, L.C.C. and Dias-Neto, E.
              Transcription analysis of the acelomate human parasite Schistosoma
              mansoni
              Nat. Genet. 35 (2), 148-157 (2003)
              22879926
              Departamento de Bioquímica
              Instituto de Química - Universidade de São Paulo
              Av. Prof. Lineu Prestes 748 sala 1200, 05508-900 São Paulo - SP,
              Brasil
              Tel: +55-11-3091-2173
              Fax: +55-11-3091-2186
              Email: verjov@iq.usp.br
              This sequence was derived from the FAPESP Schistosoma mansoni EST
              Genome Project. All sequences in the project were assembled and
              annotated. This entry and all the assembled sequences can be seen
              in the following URL http://bioinfo.iq.usp.br/schisto/
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RESULT 5
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DEFINITION RC0-MT0006-110300-021-d10 MT0006 Homo sapiens CDNA, mRNA sequence.
ACCESSION  AW947763.1  GI:8125537
VERSION     EST.
KEYWORDS    Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM    Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,
Nagai, M.A., da Silva, W. Jr., Zagai, M.A., Bordin, S., Costa, F.F.,
Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H.,
Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V.,
O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
Simpson, A.J.

TITLE
JOURNAL      Nat. Genet. 35 (2), 148-157 (2003)
MEDLINE      22879926
COMMENT      Contact: Dr. Sergio Verjovski-Almeida
              Departamento de Bioquímica

Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
MEDLINE
PUBMED      10737800
COMMENT     Contact: Simpson A.J.G.
              Laboratory of Cancer Genetics
              Ludwig Institute for Cancer Research
              Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, São Paulo-SP,
              Brazil
              Tel: +55-11-2704922
              Fax: +55-11-2707001
              Email: asimpson@ludwig.org.br
              This sequence was derived from the FAPESP/LICR Human Cancer Genome
              Project. This entry can be seen in the following URL
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              /note="Organ: marrow; Vector: puc18; Site: 1: SmaI; Site 2:
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              from ORESTES PCR (U.S. Letters Patent application No.
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              into the pUC 18 vector. Reverse transcription of tissue
              mRNA and cDNA amplification were performed under low
              stringency conditions."

ORIGIN
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Best Local Similarity 100.0%; Pred. No. 0.082;
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RESULT 6
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ACCESSION  CD164995
VERSION     EST.
KEYWORDS    Schistosoma mansoni
SOURCE      Schistosoma mansoni
ORGANISM    Schistosoma mansoni
Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea;
Strigoida; Schistosomatidae; Schistosomatidae; Schistosoma.
1 (bases 1 to 205)
Verjovski-Almeida, S., DeMarco, R., Martins, E.A.L., Guimaraes, P.E.M.,
Ojopi, E.P.B., Paquola, A.C.M., Piazza, J.P., Nishiyama, M.Y. Jr.,
Kitajima, J.P., Adamson, R.E., Ashton, P.D., Bonaldo, M.F.,
Coulson, P.S., Dillon, G.P., Farias, L.P., Gregorio, S.P., Ho, P.L.,
Leite, R.A., Malaquias, L.C.C., Marques, R.C.P., Miyasato, P.A.,
Nascimento, A.L.T.O., Ohlweiler, F.P., Reis, E.M., Ribeiro, M.A.,
Sa, R.G., Stukart, G.C., Soares, M.B., Gargioni, C., Kawano, T.,
Rodrigues, V., Madeira, A.M.B.N., Wilson, R.A., Menck, C.F.M.,
Setubal, J.C., Leite, L.C.C. and Dias-Neto, E.
Transcriptome analysis of the acelomate human parasite Schistosoma
mansoni
Nat. Genet. 35 (2), 148-157 (2003)
22879926
Contact: Dr. Sergio Verjovski-Almeida
Departamento de Bioquímica

```

Instituto de Quimica - Universidade de Sao Paulo
Av. Prof. Lineu Prestes 748 sala 1200, 05508-900 Sao Paulo - SP,
Brasil

Tel: +55-11-3091-2173
Fax: +55-11-3091-2186
Email: verj@iq.usp.br

This sequence was derived from the FAPESP Schistosoma mansoni EST
Genome Project. All sequences in the project were assembled and
annotated. This entry and all the assembled sequences can be seen
in the following URL <http://bioinfo.iq.usp.br/schisto/>

Plate: ML1-0093T-D139 row: 11 column: B.

FEATURES

source

Location/Qualifiers
1..205
/organism="Schistosoma mansoni"
/mol_type="mRNA"
/db_xref="taxon:6183"
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/sex="mixed pool"
/dev_stage="miracidium"
/clone_lib="ML1-0093"
/note="vector: pGEM T-easy"

ORIGIN

Query Match 100.0%; Score 20; DB 14; Length 205;
Best Local Similarity 100.0%; Pred. No. 0.082;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAACAGGATTAGATACCC 20

Db 57 GCAACAGGATTAGATACCC 76

RESULT 7

H74424 214 bp mRNA linear EST 31-OCT-1995
LOCUS 126 Standard Brassica napus CDNA clone R185F, mRNA sequence.
DEFINITION H74424
ACCESSION H74424.1 GI:1048331
VERSION
KEYWORDS EST.
SOURCE Brassica napus (rape)

ORGANISM
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Brassica.
REFERENCE 1 (bases 1 to 214)
AUTHORS Park, Y.S., Kwak, J.M., Kwon, O.Y., Kim, Y.S., Lee, D.S., Cho, M.J.,
Lee, H.H. and Nam, H.G.
TITLE Generation of expressed sequence tags of random root CDNA clones of
Brassica napus by single-run partial sequencing

JOURNAL Plant Physiol. 103, 359-370 (1993)
MEDLINE 94302145
PUBMED 8029332
COMMENT

Contact: Nam, HG
Plant Molecular Genetics Laboratory
Pohang University of Science and Technology
Dept. of Life Science, San31 Hyojadong, Pohang Kyungbuk 790-784,
Korea
Tel: 825622792111
Fax: 825622792199
Email: nam@vision.postech.ac.kr
Seq primer: M13 forward.

FEATURES

source

Location/Qualifiers
1..214
/organism="Brassica napus"
/mol_type="mRNA"
/strain="L. cv Naeahan"
/db_xref="taxon:3708"
/clone="R185F"
/lab_host="E. coli DH5a"
/clone_lib="Standard"
/note="vector: pUC19; Site 1: EcoRI; Site 2: EcoRI; ESTs
were generated from the root CDNA library of Brassica
napus. The CDNA was synthesized from root poly(A) RNA

with Pharmacia's cDNA synthesis kit using oligo(dT) as a
primer. The Eco RI/Not I adaptor was ligated to the
dsDNA. The cDNAs inserts were cloned into the pUC19
vector digested with EcoRI."

ORIGIN

Query Match 100.0%; Score 20; DB 14; Length 214;
Best Local Similarity 100.0%; Pred. No. 0.083;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAACAGGATTAGATACCC 20

Db 124 GCAACAGGATTAGATACCC 143

RESULT 8

AT000468/c 221 bp mRNA linear EST 13-AUG-1998
LOCUS AT000468 Brassica rapa guard cell Brassica rapa subsp. pekinensis
DEFINITION AT000468
ACCESSION AT000468
VERSION AT000468.1 GI:3414002
KEYWORDS EST.
SOURCE Brassica rapa subsp. pekinensis

ORGANISM
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
rosids; eurosids II; Brassicales; Brassicaceae; Brassica.
REFERENCE 1 (bases 1 to 221)
AUTHORS Kwak, J.M., Kim, S.A., Hong, S.W. and Nam, H.G.
TITLE Evaluation of 515 expressed sequence tags obtained from guard cells
of Brassica campestris
JOURNAL Planta 202 (1), 9-17 (1997)
MEDLINE 97320163
PUBMED 9177047
COMMENT

Contact: Hong-Gil Nam
Department of Life Science, Plant Molecular Genetics Laboratory
Pohang University of Science and Technology
San 31 Hyojadong, Pohang Kyungbuk 790-784, Korea
Email: hgn@bric.postech.ac.kr
Submitted through BRIC(Biological Research Information Center) of
Korea URL: <http://bric.postech.ac.kr/>.
Location/Qualifiers
1..221
/organism="Brassica rapa subsp. pekinensis"
/mol_type="mRNA"
/sub_species="pekinensis"
/db_xref="taxon:51351"
/clone="DGT85"
/cell_type="guard cell protoplast"
/clone_lib="Brassica rapa guard cell"

FEATURES

source

Location/Qualifiers
1..221
/organism="Brassica rapa subsp. pekinensis"
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/sub_species="pekinensis"
/db_xref="taxon:51351"
/clone="DGT85"
/cell_type="guard cell protoplast"
/clone_lib="Brassica rapa guard cell"

ORIGIN

Query Match 100.0%; Score 20; DB 9; Length 221;
Best Local Similarity 100.0%; Pred. No. 0.083;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAACAGGATTAGATACCC 20

Db 119 GCAACAGGATTAGATACCC 100

RESULT 9

BH831104 243 bp DNA linear GSS 20-MAY-2002
LOCUS BH831104
DEFINITION BACP32-L04.2 Pristionchus pacificus BAC ends Pristionchus
pacificus genomic, genomic survey sequence.
ACCESSION BH831104
VERSION BH831104.1 GI:21028448
KEYWORDS GSS.
SOURCE Pristionchus pacificus

ORGANISM
Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;

```

REFERENCE
AUTHORS
Srinivasan,J., Sinz,W., Lanz,C., Brand,A., Nandakumar R.,
Raddatz,G., Witte,H., Keller,H., Kipping,I., Pires da Silva,A.,
Jesse,T., Millare,J., de Both,M., Schuster,S.C. and Sommer,R.J.
TITLE
A BAC-based genetic linkage map of the nematode Pristionchus
pacificus
JOURNAL
Unpublished (2002)
COMMENT
Contact: Sommer RJ
Evolutionary Biology
Max-Planck-Institute for Developmental Biology
Spemannstr. 37-39, Tuebingen D-72076, Germany
Tel: 00497071601371
Fax: 00497071601498
Email: ralf.sommer@tuebingen.mpg.de
Class: BAC ends.

FEATURES
source
Location/Qualifiers
1..243
/organism="Pristionchus pacificus"
/mol_type="genomic DNA"
/strain="var. California"
/db_xref="taxon:54126"
/clone_lib="Pristionchus pacificus BAC ends"

ORIGIN
Query Match 100.0%; Score 20; DB 28; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.084;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
|||||
Db 121 GCAACAGGATTAGATACCC 140

RESULT 10
CF338988 248 bp mRNA linear EST 18-AUG-2003
LOCUS RCL1--03-G23.g1 Regenerated callus lambda phage cDNA library (RCL1)
DEFINITION Oryza sativa cDNA clone RCL1--03-G23, mRNA sequence.
ACCESSION CF338988
VERSION CF338988.1 GI:33826360
KEYWORDS EST.
SOURCE Oryza sativa
ORGANISM Oryza sativa
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoidae; Oryzaceae; Oryza.
Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,
Song,S.I., Kim,J.K., Kim,Y.-K. and Nahm,B.H.
Large-scale Sequencing Analysis of Rice ESTs
Unpublished (2003)
Contact: Nahm B.H.
Genomics and Genetics Institute, GreenGene Biotech Inc.; Division
of Bioscience and Bioinformatics, Myongji University
Yongin, Gyeonggi, Korea
Tel: 82 31 330 6193
Fax: 82 31 321 6355
Email: bhnahm@gbio.com, bhnahm@bio.myongji.ac.kr.

FEATURES
source
Location/Qualifiers
1..248
/organism="Oryza sativa"
/mol_type="mRNA"
/cultivar="Nackdong"
/db_xref="taxon:4530"
/clone="RCL1--03-G23"
/tissue_type="callus"
/dev_stage="proliferated callus on 2N6 media for 30 days"
/lab_host="E.coli SOLR"
/clone_lib="Regenerated callus lambda phage cDNA library
(RCL1)"
/notes="Vector: pBluescript SK(+); Site 1: SstI; Site 2:
XhoI; cDNA was inserted into lamda Uni-ZAP XR vector at 5'

Neodiplogasteridae; Pristionchus.
1 (bases 1 to 243)
Srinivasan,J., Sinz,W., Lanz,C., Brand,A., Nandakumar R.,
Raddatz,G., Witte,H., Keller,H., Kipping,I., Pires da Silva,A.,
Jesse,T., Millare,J., de Both,M., Schuster,S.C. and Sommer,R.J.
A BAC-based genetic linkage map of the nematode Pristionchus
pacificus
Unpublished (2002)
Contact: Sommer RJ
Evolutionary Biology
Max-Planck-Institute for Developmental Biology
Spemannstr. 37-39, Tuebingen D-72076, Germany
Tel: 00497071601371
Fax: 00497071601498
Email: ralf.sommer@tuebingen.mpg.de
Class: BAC ends.

FEATURES
source
Location/Qualifiers
1..243
/organism="Pristionchus pacificus"
/mol_type="genomic DNA"
/strain="var. California"
/db_xref="taxon:54126"
/clone_lib="Pristionchus pacificus BAC ends"

ORIGIN
Query Match 100.0%; Score 20; DB 28; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.084;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
|||||
Db 121 GCAACAGGATTAGATACCC 140

RESULT 10
CF338988 248 bp mRNA linear EST 18-AUG-2003
LOCUS RCL1--03-G23.g1 Regenerated callus lambda phage cDNA library (RCL1)
DEFINITION Oryza sativa cDNA clone RCL1--03-G23, mRNA sequence.
ACCESSION CF338988
VERSION CF338988.1 GI:33826360
KEYWORDS EST.
SOURCE Oryza sativa
ORGANISM Oryza sativa
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoidae; Oryzaceae; Oryza.
Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,
Song,S.I., Kim,J.K., Kim,Y.-K. and Nahm,B.H.
Large-scale Sequencing Analysis of Rice ESTs
Unpublished (2003)
Contact: Nahm B.H.
Genomics and Genetics Institute, GreenGene Biotech Inc.; Division
of Bioscience and Bioinformatics, Myongji University
Yongin, Gyeonggi, Korea
Tel: 82 31 330 6193
Fax: 82 31 321 6355
Email: bhnahm@gbio.com, bhnahm@bio.myongji.ac.kr.

FEATURES
source
Location/Qualifiers
1..248
/organism="Oryza sativa"
/mol_type="mRNA"
/cultivar="Nackdong"
/db_xref="taxon:4530"
/clone="RCL1--03-G23"
/tissue_type="callus"
/dev_stage="proliferated callus on 2N6 media for 30 days"
/lab_host="E.coli SOLR"
/clone_lib="Regenerated callus lambda phage cDNA library
(RCL1)"
/notes="Vector: pBluescript SK(+); Site 1: SstI; Site 2:
XhoI; cDNA was inserted into lamda Uni-ZAP XR vector at 5'
end with SstI and 3' end with XhoI site. Callus was
induced on 2N6 media for 30 days and cultured for 36hrs on
regenerated media"

ORIGIN
Query Match 100.0%; Score 20; DB 14; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.084;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
|||||
Db 159 GCAACAGGATTAGATACCC 178

RESULT 11
BX000722 275 bp mRNA linear EST 03-DEC-2002
LOCUS BX000722 Pinus pinaster xylem Pinus pinaster cDNA clone PPEM56,
DEFINITION mRNA sequence.
ACCESSION BX000722
VERSION BX000722.1 GI:26020290
KEYWORDS EST.
SOURCE Pinus pinaster
ORGANISM Pinus pinaster
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Coniferopsida; Coniferales; Pinaceae; Pinus; Pinus.
1 (bases 1 to 275)
Le Provost,G., Falva,J., Pot,D., Brach,J. and Plomion,P.
Seasonal variation in transcript accumulation in wood forming
tissue of maritime pine (Pinus pinaster Ait.) with emphasis on a
cell wall Glycine Rich Protein
Unpublished (2002)
Contact: Frigerio JM
Genetique et Amelioration 69
INRA
route d'Arcachon 33612 Cestas CEDEX France
Email: Frigerio@piereton.inra.fr.

FEATURES
source
Location/Qualifiers
1..275
/organism="Pinus pinaster"
/mol_type="mRNA"
/db_xref="taxon:71647"
/clone="PPEM56"
/tissue_type="xylem"
/clone_lib="Pinus pinaster xylem"
/notes="Compression wood was induced in four 14-year old
maritime pine clones by artificial bending. Control clone
(no bending) were sampled for xylem associated with early
(August) of the growing seasons. Differentiating xylem
corresponding to Early wood, late wood, compression wood
and opposite wood were used for mRNA fingerprinting using
the cDNA-AFLPP assay."

ORIGIN
Query Match 100.0%; Score 20; DB 13; Length 275;
Best Local Similarity 100.0%; Pred. No. 0.085;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
|||||
Db 99 GCAACAGGATTAGATACCC 118

RESULT 12
BG874702/c 297 bp mRNA linear EST 30-MAY-2001
LOCUS CM0-BN0075-220200-237-h05 EN0075 Homo sapiens cDNA, mRNA sequence.
DEFINITION BG874702
ACCESSION BG874702
VERSION BG874702.1 GI:14251633
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

```

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 297)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Bala,G.S., Simpson,D.H.,
Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V.,
O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.

Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

MEDLINE 20202663

PUBMED 10737800

COMMENT Contact: Simpson A.J.G.

Laboratory of Cancer Genetics

Ludwig Institute for Cancer Research

Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,

Brazil

Tel: +55-11-2704922

Fax: +55-11-2707001

Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome

Project. This entry can be seen in the following URL

(<http://www.ludwig.org.br/scripts/gethtml2.pl?tl=&t2=CM0-BN0075-220>)

200-237-h05&t3=2000-02-22&t4=1

Seq primer: puc 18 forward

High quality sequence start: 17

High quality sequence stop: 297.

FEATURES

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1. 297
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="BN0075"
/note="Organ: breast normal; Vector: puc18; Site 1: SmaI;
Site 2: SmaI; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the puc 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."

ORIGIN

Query Match 100.0%; Score 20; DB 12; Length 297;
Best Local Similarity 100.0%; Pred. No. 0.086;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCACACAGGATTAGATACCC 20

|||||

Db 198 GCACACAGGATTAGATACCC 179

RESULT 13

LOCUS BG874706/c

DEFINITION CM3-BN0075-240200-101-h05 BN0075 Homo sapiens cDNA, mRNA sequence.

ACCESSION BG874706

VERSION BG874706.1 GI:14251637

EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 301)

Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,

Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,

Goldman,G.H., Carvalho,A.F., Matsukuma,A., Bala,G.S., Simpson,D.H.,

Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V.,

O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and

Simpson,A.J.

Shotgun sequencing of the human transcriptome with ORF expressed

JOURNAL

MEDLINE 20202663

PUBMED 10737800

COMMENT Contact: Simpson A.J.G.

Laboratory of Cancer Genetics

Ludwig Institute for Cancer Research

Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,

Brazil

Tel: +55-11-2704922

Fax: +55-11-2707001

Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome

Project. This entry can be seen in the following URL

(<http://www.ludwig.org.br/scripts/gethtml2.pl?tl=&t2=CM3-BN0075-240>)

200-101-h05&t3=2000-02-24&t4=1

Seq primer: puc 18 forward

High quality sequence start: 19

High quality sequence stop: 301.

FEATURES

source

1. 301
/organism="Homo sapiens"
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/dev_stage="Adult"
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/note="Organ: breast normal; Vector: puc18; Site 1: SmaI;
Site 2: SmaI; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the puc 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
low stringency conditions."

ORIGIN

Query Match 100.0%; Score 20; DB 12; Length 301;
Best Local Similarity 100.0%; Pred. No. 0.086;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCACACAGGATTAGATACCC 20

|||||

Db 202 GCACACAGGATTAGATACCC 183

RESULT 14

LOCUS AI903266/c

DEFINITION RC-BT029-070199-018 BT029 Homo sapiens cDNA, mRNA sequence.

ACCESSION AI903266

VERSION AI903266.1 GI:6493653

EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 312)

Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,

Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F.,

Goldman,G.H., Carvalho,A.F., Matsukuma,A., Bala,G.S., Simpson,D.H.,

Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V.,

O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and

Simpson,A.J.

Shotgun sequencing of the human transcriptome with ORF expressed

sequence tags

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

MEDLINE 20202663

PUBMED 10737800

COMMENT Contact: Simpson A.J.G.

Laboratory of Cancer Genetics

Ludwig Institute for Cancer Research

Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,

Brazil

Tel: +55-11-2704922

Fax: +55-11-2707001
 Email: asimpson@ludwig.org.br
 This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
 (http://www.ludwig.org.br/seq/gethtml.pl?tl=RC&t2=RC-BT029-018.html
 &t3=070199&t4=1)
 Seq primer: puc 18 forward.

FEATURES

source

Location/Qualifiers
 1..312
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /sex="female"
 /dev_stage="Adult"
 /clone_lib="BT029"
 /note="Organ: breast; Vector: puc18; Site 1: SmaI; Site 2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

ORIGIN

Query Match 100.0%; Score 20; DB 9; Length 312;
 Best Local Similarity 100.0%; Pred. No. 0.086;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACACAGGATTAGATACCC 20
 |||||
 Db 100 GCAACACAGGATTAGATACCC 81

RESULT 15

AI903386/c

LOCUS AI903386 312 bp mRNA linear EST 30-MAR-2000
 DEFINITION RC-BT029-110199-165 BT029 Homo sapiens cDNA, mRNA sequence.

ACCESSION

AI903386

VERSION

AI903386.1

GI:6493773

KEYWORDS

EST.

SOURCE

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 312)

Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,

Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F.,

Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H.,

Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V.,

O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and

Simpson, A.J.

Shotgun sequencing of the human transcriptome with ORF expressed

sequence tags

Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

20202663

10737800

Contact: Simpson A.J.G.

Laboratory of Cancer Genetics

Ludwig Institute for Cancer Research

Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,

Brazil

Tel: +55-11-2704922

Fax: +55-11-2707001

Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome

Project. This entry can be seen in the following URL

(http://www.ludwig.org.br/seq/gethtml.pl?tl=RC&t2=RC-BT029-165.html
 &t3=110199&t4=1)

Seq primer: puc 18 forward.

Location/Qualifiers

1..312

/organism="Homo sapiens"

/mol_type="mRNA"

FEATURES

source

/db_xref="taxon:9606"
 /sex="female"
 /dev_stage="Adult"
 /clone_lib="BT029"

/note="Organ: breast; Vector: puc18; Site 1: SmaI; Site 2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

ORIGIN

Query Match 100.0%; Score 20; DB 9; Length 312;
 Best Local Similarity 100.0%; Pred. No. 0.086;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACACAGGATTAGATACCC 20
 |||||
 Db 100 GCAACACAGGATTAGATACCC 81

Search completed: August 4, 2004, 09:20:47
 Job time : 1397.25 secs

This Page Blank (uspto)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 06:32:11 ; Search time 1825.78 Seconds
(without alignments)
385.436 Million cell updates/sec

Title: US-09-940-860-1

Perfect score: 20

Sequence: 1 gcaacaggattagatacc 20

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 37577330 seqs, 17593059518 residues

Word size : 0

Total number of hits satisfying chosen parameters: 75154660

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Pending Patents_NA_Main:*

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- 2: /cgn2_6/ptodata/2/pna/us06 COMB.seq:*
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- 4: /cgn2_6/ptodata/2/pna/us08 COMB.seq:*
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- 110: /cgn2_6/ptodata/2/pna/us6053 COMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	39	US-09-940-860-1
2	20	100.0	25	17	US-09-283-655-1
3	20	100.0	25	26	US-09-620-375-1
4	20	100.0	25	54	US-10-715-220-1
5	20	100.0	30	39	US-09-940-860-6
6	20	100.0	47	6	US-08-246-935-2
7	20	100.0	50	49	US-10-343-313-76
8	20	100.0	50	49	US-10-343-313-77
9	20	100.0	50	49	US-10-343-313-79
10	20	100.0	50	49	US-10-343-313-80
11	20	100.0	50	49	US-10-343-313-81
12	20	100.0	50	49	US-10-343-313-82
13	20	100.0	50	49	US-10-343-313-83
14	20	100.0	50	49	US-10-343-313-84
15	20	100.0	50	49	US-10-343-313-85
16	20	100.0	50	49	US-10-343-313-87
17	20	100.0	50	49	US-10-343-313-88
18	20	100.0	50	49	US-10-343-313-89
19	20	100.0	50	49	US-10-343-313-90
20	20	100.0	50	49	US-10-343-313-91
21	20	100.0	50	49	US-10-343-313-98
22	20	100.0	50	49	US-10-343-313-99
23	20	100.0	50	49	US-10-343-313-102
24	20	100.0	50	49	US-10-343-313-104
25	20	100.0	50	49	US-10-343-313-105
26	20	100.0	105	51	US-10-415-182A-337
27	20	100.0	237	11	US-08-731-034-686
28	20	100.0	237	56	US-60-004-674-686
29	20	100.0	248	11	US-08-731-034-37
30	20	100.0	248	56	US-60-004-674-37
31	20	100.0	279	51	US-10-417-884-3170
32	20	100.0	279	51	US-10-417-884-3171
33	20	100.0	293	51	US-10-410-040A-19
34	20	100.0	294	51	US-10-410-040A-15
35	20	100.0	294	51	US-10-410-040A-16
36	20	100.0	294	51	US-10-410-040A-17
37	20	100.0	294	51	US-10-410-040A-18
38	20	100.0	294	51	US-10-410-040A-20
39	20	100.0	294	51	US-10-410-040A-21
40	20	100.0	294	51	US-10-410-040A-23
41	20	100.0	306	13	US-09-107-433-2236
42	20	100.0	306	53	US-10-617-320-2236
43	20	100.0	352	58	US-60-029-960-1510
44	20	100.0	375	27	US-09-652-913-6226
45	20	100.0	413	20	US-09-465-877-1662

OTHER INFORMATION: synthetic amplification primer

US-09-940-860-1

Query Match

Best Local Similarity

Mismatches

Conservative

Score

100.0%

DB

20

Length

20

Indels

0

Gaps

0

QY

1

GCAACACAGGATTAGATACCC

20

DB

1

GCAACACAGGATTAGATACCC

20

RESULT 2

US-09-283-655-1

Sequence 1, Application US/09283655

GENERAL INFORMATION:

APPLICANT: Vojdani, A.

TITLE OF INVENTION: DETECTION OF MYCOPLASMA IN PATIENTS WITH CHRONIC FATIGUE SYNDROME AND RELATED DISORDERS

FILE REFERENCE: IMSCI.009A

CURRENT APPLICATION NUMBER: US/09/283,655

CURRENT FILING DATE: 1999-04-01

NUMBER OF SEQ ID NOS: 8

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 1

LENGTH: 25

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide primer

US-09-283-655-1

Query Match

Best Local Similarity

Mismatches

Conservative

Score

100.0%

DB

17

Length

25

Indels

0

Gaps

0

QY

1

GCAACACAGGATTAGATACCC

20

DB

5

GCAACACAGGATTAGATACCC

24

RESULT 3

US-09-620-375-1

Sequence 1, Application US/09620375

GENERAL INFORMATION:

APPLICANT: Vojdani, A.

TITLE OF INVENTION: DETECTION OF MYCOPLASMA IN PATIENTS WITH CHRONIC FATIGUE SYNDROME AND RELATED DISORDERS

FILE REFERENCE: IMSCI.009A

CURRENT APPLICATION NUMBER: US/09/620,375

CURRENT FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: 09/283,655

PRIOR FILING DATE: 1999-04-02

NUMBER OF SEQ ID NOS: 8

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 1

LENGTH: 25

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide primer

US-09-620-375-1

Query Match

Best Local Similarity

Mismatches

Conservative

Score

100.0%

DB

26

Length

25

Indels

0

Gaps

0

QY

1

GCAACACAGGATTAGATACCC

20

DB

5

GCAACACAGGATTAGATACCC

24

RESULT 4

US-09-620-375-1

Sequence 1, Application US/09620375

GENERAL INFORMATION:

APPLICANT: Vojdani, A.

TITLE OF INVENTION: DETECTION OF MYCOPLASMA IN PATIENTS WITH CHRONIC FATIGUE SYNDROME AND RELATED DISORDERS

FILE REFERENCE: IMSCI.009A

CURRENT APPLICATION NUMBER: US/09/620,375

CURRENT FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: 09/283,655

PRIOR FILING DATE: 1999-04-02

NUMBER OF SEQ ID NOS: 8

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 1

LENGTH: 25

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide primer

US-09-620-375-1

Query Match

Best Local Similarity

Mismatches

Conservative

Score

100.0%

DB

26

Length

25

Indels

0

Gaps

0

QY

1

GCAACACAGGATTAGATACCC

20

DB

5

GCAACACAGGATTAGATACCC

24

ALIGNMENTS

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US-10-715-220-1
; Sequence 1, Application US/10715220
; GENERAL INFORMATION:
; APPLICANT: Vojdani, A.
; TITLE OF INVENTION: DETECTION OF MYOPLASMA IN PATIENTS WITH
; FILE OF INVENTION: CHRONIC FATIGUE SYNDROME AND RELATED DISORDERS
; FILE REFERENCE: IMSCI.009A
; CURRENT APPLICATION NUMBER: US/10/715,220
; CURRENT FILING DATE: 2003-11-17
; PRIOR APPLICATION NUMBER: US/09/283,655
; PRIOR FILING DATE: 1999-04-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1:
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide primer
US-10-715-220-1
Query Match 100.0%; Score 20; DB 54; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.14; 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0;

QY 1 GCAAACAGGATTAGATACCC 20
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DB 5 GCAAACAGGATTAGATACCC 24
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RESULT 5
US-09-940-860-6
; Sequence 6, Application US/09940860
; GENERAL INFORMATION:
; APPLICANT: Rothman, Richard
; APPLICANT: Majmudar, Maulik
; TITLE OF INVENTION: MOLECULAR DIAGNOSIS OF BACTEREMIA
; FILE REFERENCE: 01107.00185
; CURRENT APPLICATION NUMBER: US/09/940,860
; CURRENT FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/229,376
; PRIOR FILING DATE: 2000-08-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 30
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic amplification primer
US-09-940-860-6
Query Match 100.0%; Score 20; DB 39; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAAACAGGATTAGATACCC 20
| | | | | | | | | | | | | | | | | | | | | |
DB 2 GCAAACAGGATTAGATACCC 21
| | | | | | | | | | | | | | | | | | | | | |

RESULT 6
US-08-246-935-2/c
; Sequence 2, Application US/08246935
; GENERAL INFORMATION:
; APPLICANT: Weisburg, William G.
; APPLICANT: Lane, David J.
; TITLE OF INVENTION: A METHOD FOR DETECTING AND IDENTIFYING
; FILE OF INVENTION: PATHOGENIC ORGANISMS USING TARGET SEQUENCES AS DETECTORS
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive

US-09-940-860-1.oligo.rnqm
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/246,935
; APPLICATION NUMBER: US 07/707,646
; FILING DATE: 30-MAY-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: GTR90-02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)861-6240
; TELEFAX: (617)861-9540
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 47 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA probe
; FEATURE:
; NAME/KEY: GTS OLIGO NUMBER 1739
US-08-246-935-2
Query Match 100.0%; Score 20; DB 6; Length 47;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAAACAGGATTAGATACCC 20
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DB 33 GCAAACAGGATTAGATACCC 14
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RESULT 7
US-10-343-319-76
; Sequence 76, Application US/10343319
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ9090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Campylobacter jejuni
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Helicobacter pylori also.
US-10-343-319-76
Query Match 100.0%; Score 20; DB 49; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.14;
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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAAACAGGATTAGATACCC 20
|
Db 16 GCAAACAGGATTAGATACCC 35

RESULT 8

US-10-343-319-77
; Sequence 77, Application US/10343319
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; PRIOR FILING DATE: 2003-09-17
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; LENGTH: 50
; TYPE: DNA
; ORGANISM: Treponema denticola
US-10-343-319-77

Query Match 100.0%; Score 20; DB 49; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAAACAGGATTAGATACCC 20
|
Db 16 GCAAACAGGATTAGATACCC 35

RESULT 9

US-10-343-319-79
; Sequence 79, Application US/10343319
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; PRIOR FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ9090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 79
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Leptothrix mobilis
US-10-343-319-79

Query Match 100.0%; Score 20; DB 49; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAAACAGGATTAGATACCC 20
|
Db 16 GCAAACAGGATTAGATACCC 35

RESULT 10

US-10-343-319-80
; Sequence 80, Application US/10343319
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; PRIOR FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ9090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Thiomicrospira denitrificans
US-10-343-319-80

Query Match 100.0%; Score 20; DB 49; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAAACAGGATTAGATACCC 20
|
Db 16 GCAAACAGGATTAGATACCC 35

RESULT 11

US-10-343-319-81
; Sequence 81, Application US/10343319
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; PRIOR FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ9090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Neisseria meningitidis
US-10-343-319-81

Query Match 100.0%; Score 20; DB 49; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAAACAGGATTAGATACCC 20
|
Db 16 GCAAACAGGATTAGATACCC 35

RESULT 12

US-10-343-319-82
; Sequence 82, Application US/10343319
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.

; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; PRIOR FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ09090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Actinobacillus actinomycetemcomitans
US-10-343-319-82

Query Match 100.0%; Score 20; DB 49; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.14; Indels 0;
Matches 20; Conservative 0; Mismatches 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
DB 16 GCAACAGGATTAGATACCC 35

RESULT 13

US-10-343-319-83
; Sequence 83, Application US/10343319
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ09090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 83
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Haemophilus influenzae
US-10-343-319-83

Query Match 100.0%; Score 20; DB 49; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.14; Indels 0;
Matches 20; Conservative 0; Mismatches 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
DB 16 GCAACAGGATTAGATACCC 35

RESULT 14

US-10-343-319-84
; Sequence 84, Application US/10343319
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27

; PRIOR APPLICATION NUMBER: AU PQ09090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 84
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Escherichia coli
US-10-343-319-84

Query Match 100.0%; Score 20; DB 49; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.14; Indels 0;
Matches 20; Conservative 0; Mismatches 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
DB 16 GCAACAGGATTAGATACCC 35

RESULT 15

US-10-343-319-85
; Sequence 85, Application US/10343319
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ09090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 85
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Salmonella typhi
; NAME/KEY: misc feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Also Vibrio cholerae, Pseudomonas aeruginosa, and
; OTHER INFORMATION: Rhodospirillum rubrum.
US-10-343-319-85

Query Match 100.0%; Score 20; DB 49; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
DB 16 GCAACAGGATTAGATACCC 35

Search completed: August 4, 2004, 11:29:48
Job time : 1826.78 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 05:41:25 ; Search time 1393.25 Seconds
(without alignments)
428.668 Million cell updates/sec

Title: US-09-940-860-2

Perfect score: 20

Sequence: 1 ggagggaagcgaggatgacg 20

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 27513289 seqs, 14931090276 residues

Word size : 0

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

EST:*

1: em_estba:*
2: em_esthum:*
3: em_estin:*
4: em_estmu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_htc:*
9: gb_est1:*
10: gb_est2:*
11: gb_htc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pin:*
20: em_gss_vrt:*
21: em_gss_fun:*
22: em_gss_mam:*
23: em_gss_mus:*
24: em_gss_pro:*
25: em_gss_rod:*
26: em_gss_pig:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18	90.0	304	9 AV295422	AV295422
2	18	90.0	410	12 BG102240	BG102240 RH122.23
3	18	90.0	508	12 BG380134	BG380134 UI-R-GS0-
4	18	90.0	530	29 CG093861	CG093861 PUF3X26TB

c	5	18	90.0	567	29	CG093863
c	6	18	90.0	573	14	CA199884
c	7	18	90.0	617	14	CA236557
c	8	18	90.0	784	29	CG657309
c	9	18	90.0	784	29	CG734728
c	10	18	90.0	826	10	BE743778
c	11	18	90.0	867	29	CG458612
c	12	18	90.0	890	28	BZ803618
c	13	18	90.0	951	29	CG038934
c	14	18	90.0	972	29	CG038933
c	15	18	90.0	992	28	BZ803611
c	16	18	90.0	1013	28	BZ806256
c	17	17	85.0	242	9	AV319131
c	18	17	85.0	245	14	CF771463
c	19	17	85.0	255	9	AV324545
c	20	17	85.0	259	14	CA484206
c	21	17	85.0	261	14	CA486269
c	22	17	85.0	268	9	AI438796
c	23	17	85.0	273	14	CF760514
c	24	17	85.0	294	10	BB021190
c	25	17	85.0	303	10	AW202526
c	26	17	85.0	314	14	CD226821
c	27	17	85.0	317	9	AW066567
c	28	17	85.0	318	28	BH627207
c	29	17	85.0	322	10	BB040793
c	30	17	85.0	330	14	CA485170
c	31	17	85.0	332	28	BH229295
c	32	17	85.0	337	10	BB131766
c	33	17	85.0	338	10	BB161598
c	34	17	85.0	339	14	CF758969
c	35	17	85.0	339	14	CF758236
c	36	17	85.0	358	13	BQ282009
c	37	17	85.0	360	14	CB603914
c	38	17	85.0	361	14	CD670294
c	39	17	85.0	374	10	BF457064
c	40	17	85.0	389	14	CF487372
c	41	17	85.0	406	10	AW286184
c	42	17	85.0	409	12	BM266611
c	43	17	85.0	424	9	AI593552
c	44	17	85.0	426	9	AI941805
c	45	17	85.0	427	10	BF723566

ALIGNMENTS

RESULT 1
AV295422

LOCUS
DEFINITION

AV295422 304 bp mRNA linear EST 10-NOV-1999
AV295422 RIKEN full-length enriched, 8 days embryo Mus musculus
cDNA clone 5730434H04 3', similar to S68987 set=Set beta isoform
{alternatively spliced}, mRNA sequence.

ACCESSION

AV295422 GI:6327439

VERSION

EST.

KEYWORDS

SOURCE

ORGANISM

Mus musculus (house mouse)

REFERENCE

AUTHORS

1 (bases 1 to 304)

Konno,H., Azawa,K., Akahira,S., Akiyama,J., Carninci,P., Endo,T.,

Fukuda,S., Fukunishi,Y., Harai,A., Hayatsu,N., Hirozane,T., Hori,F.,

Ishii,Y., Ishikawa,T., Itoh,M., Izawa,M., Kadota,K., Kagawa,I.,

Kai,C., Kawai,J., Kikuchi,N., Kojima,Y., Koya,S., Kusakabe,M.,

Matsuyama,T., Miki,R., Mizuno,Y., Nakamura,M., Oda,H., Okazaki,Y.,

Owa,C., Ozawa,Y., Saito,H., Sano,M., Sato,K., Shibata,K.,

Shibata,Y., Shigemoto,Y., Shiraki,T., Sogabe,Y., Sugahara,Y.,

Suzuki,H., Suzuki,H., Takahashi,F., Tatenno,M., Tomimashi,N.,

Tsunoda,Y., Watanabe,S., Yamamura,T., Yasunishi,A.,

Yokota,T., Yoshiki,A., Yoshino,M., Muramatsu,M. and Hayashizaki,Y.

Unpublished (1999)

CONTACT: Yoshihide Hayashizaki

elements were found in this cDNA sequence: 1-23,
 >AT_rich#Low complexity
 Seq primer: M13 Forward
 POLYA=Yes.

FEATURES

source

Location/Qualifiers

1..508
 /organism="Rattus norvegicus"
 /mol_type="mRNA"
 /strain="Sprague-Dawley"
 /db_xref="taxon:10116"
 /clone="UI-R-CS0-btp-d-11-0-UI"
 /dev_stage="ADULT"
 /lab_host="DH10B (Life Technologies)"
 /clone_lib="UI-R-CS0"
 /note="Vector: pT73D-Pac (Pharmacia) with a modified
 polylinker; Site 1: Not I; Site 2: Eco RI; The UI-R-CS0
 library is a normalized library constructed from the
 following rat heart tissues: embryonic day 17, embryonic
 day 19, embryonic day 21, adult day 1, adult day 12, adult
 day 75, adult day 200. For a detailed description of the
 library from which this clone was derived, please visit
 our web site at ratest.eng.uiowa.edu. The subtraction has
 been previously described in (Bonaldo, Lennon and Soares,
 Genome Research 6:791-806, 1996)
 TAG TISSUE=rat heart pool
 TAG LIB=UI-R-CS0
 TAG_SEQ=ATAAGATAAC"

ORIGIN

Query Match 90.0%; Score 18; DB 12; Length 508;
 Best Local Similarity 100.0%; Pred. No. 1.1e+02;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GAGGAAGGCGAGGATGAC 19

|||||
 Db 349 GAGGAAGGCGAGGATGAC 332

RESULT 4

CG093861

LOCUS

DEFINITION PUF5X26TB ZM 0.6 1.0 KB Zea mays genomic clone ZMMBTa0725F04,
 genomic survey sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

Zea mays
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
 clade; Panicoideae; Andropogoneae; Zea.

REFERENCE

AUTHORS

Whitelaw, C.A., Quackenbush, J., Van Aken, S., Utterback, T.,
 Resnick, A., Fraser, C.M., Yuan, Y., San Miguel, P., Ma, J., and
 Bennetzen, J.

TITLE

JOURNAL

COMMENT

Unpublished (2003)
 Other_GSSs: PUF5X26TD
 Contact: Cathy Whitelaw

TIGR

9712 Medical Center Drive, Rockville, MD 20850, USA

Tel: 301-838-5843

Fax: 301-838-0208

Email: whitelaw@tigr.org

Seq primer: TR

Class: sheared ends.

Location/Qualifiers

1..530

/organism="Zea mays"

/mol_type="genomic DNA"

/strain="B73"

/db_xref="taxon:4577"

/clone="ZMMBTa0725F04"

FEATURES

source

ORIGIN

Query Match

Best Local Similarity 90.0%; Score 18; DB 29; Length 530;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGGCGAGGATGA 18

|||||
 Db 117 GGAGGAAGGCGAGGATGA 134

RESULT 5

CG093863/c

LOCUS

DEFINITION PUF5X26TD ZM 0.6 1.0 KB Zea mays genomic clone ZMMBTa0725F04,
 genomic survey sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

Zea mays
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
 clade; Panicoideae; Andropogoneae; Zea.

REFERENCE

AUTHORS

Whitelaw, C.A., Quackenbush, J., Van Aken, S., Utterback, T.,
 Resnick, A., Fraser, C.M., Yuan, Y., San Miguel, P., Ma, J., and
 Bennetzen, J.

TITLE

JOURNAL

COMMENT

Unpublished (2003)
 Other_GSSs: PUF5X26TB
 Contact: Cathy Whitelaw

TIGR

9712 Medical Center Drive, Rockville, MD 20850, USA

Tel: 301-838-5843

Fax: 301-838-0208

Email: whitelaw@tigr.org

Seq primer: TF

Class: sheared ends.

Location/Qualifiers

1..567

/organism="Zea mays"

/mol_type="genomic DNA"

/strain="B73"

/db_xref="taxon:4577"

/clone="ZMMBTa0725F04"

/clone_lib="ZM_0.6_1.0_KB"

/note="Vector: PCR4-TOPO; Site 1: EcoRI; 0.6-1.0 kb high
 COT selected genomic DNA library"

ORIGIN

Query Match

Best Local Similarity 90.0%; Score 18; DB 29; Length 567;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGGCGAGGATGA 18

|||||
 Db 415 GGAGGAAGGCGAGGATGA 398

RESULT 6

CA199884/c

LOCUS

DEFINITION SCLFL1013D09.g FL1 Saccharum officinarum cDNA clone SCLFL1013D09
 5', mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

Saccharum officinarum

/clone_lib="ZM 0.6 1.0 KB"
 /note="Vector: PCR4-TOPO; Site 1: EcoRI; 0.6-1.0 kb high
 COT selected genomic DNA library"

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD clade; Panicoideae; Andropogoneae; Saccharum.

REFERENCE AUTHORS TITLE JOURNAL COMMENT

1 (bases 1 to 573)
Vettore,A.L., da Silva,F.R., Kemper,E.L. and Arruda,P.
The libraries that made SUCSEST
Genet. Mol. Biol. 24 (1-4), 1-7 (2001)
Contact: Arruda P
Centro de Biologia Molecular e Engenharia Genetica
Universidade Estadual de Campinas
Caixa Postal 6010, 13083-970, Campinas SP, Brazil
Tel: 55 19 3788 1137
Fax: 55 19 3788 1089
Email: parruda@unicamp.br

Clone distribution: clone distribution information can be found through the Brazilian Clone Collection Center (BCCC) at <http://www.bcccenter.fcav.unesp.br>
Plate: 013 row: D column: 09
Seq primer: T7 Promoter Primer.

Location/Qualifiers

1. 573
/organism="Saccharum officinarum"
/mol_type="mRNA"
/db_xref="taxon:4547"
/clone="SCSBFL1013D09"
/lab_host="DH10B"
/clone_lib="FL1"
/note="Organ: Inflorescence at beginning of development (1cm-long); Vector: pSport1; Site_1: SalI; Site_2: NotI; An unidirectional cDNA library generated from [Inflorescence at beginning of development (1cm-long)]. cDNA was prepared from polyA+ mRNA using SuperScript Plasmid System Kit (Invitrogen). The double-strand cDNAs were fractionated in a sepharose CL-2B 40cm-columns and fragments sizing between 0.8 and 1.5 Kb were directionally cloned into the vector. Details of each source of RNA and library construction can be obtained at <http://sucst.lad.ic.unicamp.br/public>"

FEATURES source

Query Match 90.0%; Score 18; DB 14; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GAGGAGCGGAGGATGAC 19
|||||
Db 419 GAGGAGCGGAGGATGAC 402

ORIGIN

Query Match 90.0%; Score 18; DB 14; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GAGGAGCGGAGGATGAC 19
|||||
Db 419 GAGGAGCGGAGGATGAC 402

RESULT 7 CA236557/c

LOCUS CC236557 617 bp mRNA linear EST 25-SEP-2003
DEFINITION cDNA clone SCSBFL5014E09.9 Saccharum officinarum FL5 Saccharum officinarum cDNA clone SCSBFL5014E09 5', mRNA sequence.

ACCESSION CC236557
VERSION CC236557.1 GI:35306233
KEYWORDS EST.
SOURCE Saccharum officinarum
ORGANISM Saccharum officinarum

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD clade; Panicoideae; Andropogoneae; Saccharum.

REFERENCE AUTHORS TITLE JOURNAL COMMENT

1 (bases 1 to 617)
Vettore,A.L., da Silva,F.R., Kemper,E.L. and Arruda,P.
The libraries that made SUCSEST
Genet. Mol. Biol. 24 (1-4), 1-7 (2001)
Contact: Arruda P
Centro de Biologia Molecular e Engenharia Genetica
Universidade Estadual de Campinas
Caixa Postal 6010, 13083-970, Campinas SP, Brazil
Tel: 55 19 3788 1137
Fax: 55 19 3788 1089
Email: parruda@unicamp.br

Clone distribution: clone distribution information can be found through the Brazilian Clone Collection Center (BCCC) at <http://www.bcccenter.fcav.unesp.br>
Plate: 014 row: E column: 09
Seq primer: T7 Promoter Primer.

Location/Qualifiers

1. 617
/organism="Saccharum officinarum"
/mol_type="mRNA"
/db_xref="taxon:4547"
/clone="SCSBFL5014E09"
/lab_host="DH10B"
/clone_lib="Saccharum officinarum FL5"
/note="Organ: Developed inflorescence (20cm-long) without rachis; Vector: pSport1; Site_1: SalI; Site_2: NotI; An unidirectional cDNA library generated from [Developed inflorescence (20cm-long) without rachis]. cDNA was prepared from polyA+ mRNA using SuperScript Plasmid System Kit (Invitrogen). The double-strand cDNAs were fractionated in a sepharose CL-2B 40cm-columns and fragments sizing between 0.8 and 1.5 Kb were directionally cloned into the vector. Details of each source of RNA and library construction can be obtained at <http://sucst.lad.ic.unicamp.br/public>"

FEATURES source

1. 617

Query Match 90.0%; Score 18; DB 14; Length 617;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

ORIGIN

Qy 1 CGAGGAGCGGAGGATGAC 18
|||||
Db 255 GAGGAGCGGAGGATGAC 238

RESULT 8 CC657309/c

LOCUS CC657309 784 bp DNA linear GSS 19-JUN-2003
DEFINITION CGJAO16TV.ZM.0.7.1.5.KB Zea mays genomic clone ZMMBMA0295D07, genomic survey sequence.

ACCESSION CC657309
VERSION CC657309.1 GI:32060634
KEYWORDS GSS.
SOURCE Zea mays
ORGANISM Zea mays

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD clade; Panicoideae; Andropogoneae; Zea.

1 (bases 1 to 784)

REFERENCE
AUTHORS Whitelaw,C.A., Quackenbush,J., Van Aken,S., Utterback,T., Resnick,A., Fraser,C.M., Budiman,M.A., Bedell,J.A., Rohlfing,T., Citek,R.W., Nunberg,A., Robbins,D. and Lakey,N.

Consortium for Maize Genomics
Unpublished (2002)
Contact: Cathy Whitelaw
TIGR

9712 Medical Center Drive, Rockville, MD 20850, USA

Tel: 301-838-5843

Fax: 301-838-0208

Email: whitelaw@tigr.org

Seq primer: 1P

Class: sheared ends.

Location/Qualifiers

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/organism="Zea mays"
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/db_xref="taxon:4577"
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ORIGIN

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Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGCGGAGGATGA 18
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Db 484 GGAGGAAGCGGAGGATGA 467

RESULT 9
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LOCUS      784 bp      DNA      linear      GSS 22-OCT-2003
DEFINITION ZMBBb0290C20.f ZMBBb Zea mays subsp. mays genomic clone
ACCESSION  ZMBBb0290C20 5', genomic survey sequence.
VERSION     CG734728
KEYWORDS    CG734728.1 GI:37807453
SOURCE      GSS.
ORGANISM    Zea mays subsp. mays (maize)
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
            clade; Panicoideae; Andropogoneae; Zea.
REFERENCE   1 (bases 1 to 784)
AUTHORS     Yu, Y., Kim, H.R., Hatfield, J., Soderlund, C., Bharti, A.K., Messing, J.
            and Wing, R.
TITLE       Sequencing of the maize genome
JOURNAL     Unpublished (2003)
COMMENT     Contact: Rod Wing
            Arizona Genomics Institute
            University of Arizona
            Biological Sciences West, 448A, P.O. Box 210088, Tucson, AZ
            85721-0088, USA
            Tel: 520 626 3967
            Fax: 520 621 9288
            Email: http://genome.arizona.edu
            PCR Primers
FORWARD: T7
BACKWARD: M13r
Plate: 0290 row: C column: 20
Seq primer: T7
Class: BAC ends.
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Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 10
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DEFINITION 60157786F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926924 5',
            mRNA sequence.
ACCESSION  BE743778
VERSION     BE743778.1 GI:10157770
KEYWORDS    EST.

SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 826)
AUTHORS     NIH-MGC http://mgc.nci.nih.gov/.
            National Institutes of Health, Mammalian Gene Collection (MGC)
            Unpublished (1999)
COMMENT     Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-remail.nih.gov
            Tissue Procurement: DCTD/BTP
            cDNA Library Preparation: Ling Hong/Rubin Laboratory
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
            Plate: LLCM755 row: k column: 21
            High quality sequence stop: 771.
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               /note="Organ: ovary; Vector: pOTB7; Site 1: XhoI; Site 2:
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               insert size 1.8kb. Library constructed by Ling Hong in
               the laboratory of Gerald M. Rubin (University of
               California, Berkeley) using ZAP-cDNA synthesis kit
               (Stratagene) and Superscript II RT (Life Technologies)."

ORIGIN
Query Match      90.0%; Score 18; DB 10; Length 826;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GAGGAAGCGGAGGATGAC 19
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Db 598 GAGGAAGCGGAGGATGAC 615

RESULT 11
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DEFINITION FUIKZ64TD ZM_0.6_1.0 KB Zea mays genomic clone ZMMBtra0607K08,
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ACCESSION  CG458612
VERSION     CG458612.1 GI:34843612
KEYWORDS    GSS.
SOURCE      Zea mays
            Zea mays
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
            clade; Panicoideae; Andropogoneae; Zea.
REFERENCE   1 (bases 1 to 867)
AUTHORS     Whitelaw, C.A., Quackenbush, J., Van Aken, S., Utterback, T.,
            Reanick, A., Fraser, C.M., Yuan, Y., San Miguel, P., Ma, J. and
            Bennetzen, J.
            Maize Genomics Consortium
            Unpublished (2003)
            Other GSSs: FUIKZ64TB
            Contact: Cathy Whitelaw
            TIGR
            9712 Medical Center Drive, Rockville, MD 20850, USA
            Tel: 301-838-5843
            Fax: 301-838-0208
            Email: whitelaw@tigr.org
            Seq primer: TP

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  Db 405 GGAGGAAGGCGAGGATCA 422
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LOCUS
DEFINITION
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  genomic survey sequence.
ACCESSION
  BZ803618
VERSION
  BZ803618.1 GI:29012224
KEYWORDS
  GSS.
SOURCE
  Zea mays
  ORGANISM
    Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
    Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
    clade; Panicoideae; Andropogoneae; Zea.
  1 (bases 1 to 890)
  Whitelaw,C.A., Quackenbush,J., Van Aken,S., Utterback,T.,
  Resnick,A., Fraser,C.M., Yuan,Y., San Miguel,P., Ma,J. and
  Bennetzen,J.
  Maize Genomics Consortium
  Unpublished (2003)
  Other GSSs: PUFDX67TB
  Contact: Cathy Whitelaw
  TIGR
  9712 Medical Center Drive, Rockville, MD 20850, USA
  Tel: 301-838-5843
  Fax: 301-838-0208
  Email: whitelaw@tigr.org
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DEFINITION
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ACCESSION
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VERSION
  CG038933.1 GI:33911089
KEYWORDS
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SOURCE
  Zea mays
  ORGANISM
    Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
    Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
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  1 (bases 1 to 972)
  Whitelaw,C.A., Quackenbush,J., Van Aken,S., Utterback,T.,
  Resnick,A., Fraser,C.M., Yuan,Y., San Miguel,P., Ma,J. and
  Bennetzen,J.
  Maize Genomics Consortium
  Unpublished (2003)
  Other GSSs: PUFLB28TD
  Contact: Cathy Whitelaw
  TIGR
  9712 Medical Center Drive, Rockville, MD 20850, USA
  Tel: 301-838-5843
  Fax: 301-838-0208
  Email: whitelaw@tigr.org
  Class: sheared ends.
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ACCESSION
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VERSION
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KEYWORDS
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SOURCE
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    Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
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  Bennetzen,J.
  Maize Genomics Consortium
  Unpublished (2003)
  Other GSSs: PUFLB28TB
  Contact: Cathy Whitelaw
  TIGR
  9712 Medical Center Drive, Rockville, MD 20850, USA
  Tel: 301-838-5843
  Fax: 301-838-0208
  Email: whitelaw@tigr.org
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  Bennetzen,J.
  Maize Genomics Consortium
  Unpublished (2003)
  Other GSSs: PUFLB28TB
  Contact: Cathy Whitelaw
  TIGR
  9712 Medical Center Drive, Rockville, MD 20850, USA
  Tel: 301-838-5843
  Fax: 301-838-0208
  Email: whitelaw@tigr.org
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VERSION
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  Whitelaw,C.A., Quackenbush,J., Van Aken,S., Utterback,T.,
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  Bennetzen,J.
  Maize Genomics Consortium
  Unpublished (2003)
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  Contact: Cathy Whitelaw
  TIGR
  9712 Medical Center Drive, Rockville, MD 20850, USA
  Tel: 301-838-5843
  Fax: 301-838-0208
  Email: whitelaw@tigr.org
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ACCESSION
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VERSION
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KEYWORDS
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    Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
    clade; Panicoideae; Andropogoneae; Zea.
  1 (bases 1 to 972)
  Whitelaw,C.A., Quackenbush,J., Van Aken,S., Utterback,T.,
  Resnick,A., Fraser,C.M., Yuan,Y., San Miguel,P., Ma,J. and
  Bennetzen,J.
  Maize Genomics Consortium
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  Contact: Cathy Whitelaw
  TIGR
  9712 Medical Center Drive, Rockville, MD 20850, USA
  Tel: 301-838-5843
  Fax: 301-838-0208
  Email: whitelaw@tigr.org
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Job time : 1397.25 secs

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 VERSION BZ803611.1 GI:29012211
 KEYWORDS GSS.
 SOURCE Zea mays
 ORGANISM Zea mays
 Zukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
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 clade; Panicoideae; Andropogoneae; Zea.
 REFERENCE 1 (bases 1 to 992)
 AUTHORS Whitelaw,C.A., Quackenbush,J., Van Aken,S., Utterback,T.,
 Resnick,A., Fraser,C.M., Yuan,Y., San Miguel,P., Ma,J. and
 Bennetzen,J.
 TITLE Maize Genomics Consortium
 JOURNAL Unpublished (2003)
 COMMENT Other GSSs: PUFDX67TD
 Contact: Cathy Whitelaw
 TIGR
 9712 Medical Center Drive, Rockville, MD 20850, USA
 Tel: 301-838-5843
 Fax: 301-838-0208
 Email: whitelaw@tigr.org
 Seq primer: TR
 Class: sheared ends.
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 Cot selected genomic DNA library"

FEATURES

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ORIGIN

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 DB 350 GGAGGAAGCGGAGGATGA 367

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LOCATION: (B) LOCATION 1...279
SEQUENCE DESCRIPTION: SEQ ID NO: 3170:
US-10-417-884A-3170

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Db 134 GCAAAACAGGATTAGATACCC 115

RESULT 2
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; Sequence 3171, Application US/10417884A
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER: READABLE FORM:
; MEDIUM TYPE: CD/ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/417,884A
; FILING DATE: 17-Apr-2003
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532
; FILING DATE: 30-Jun-1998
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 3171:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 279 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
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; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (B) LOCATION 1...279
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US-10-417-884A-3171

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Best Local Similarity 100.0%; Pred. No. 0.021;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GCAAAACAGGATTAGATACCC 20
Db 134 GCAAAACAGGATTAGATACCC 115

RESULT 3
US-10-793-479-14013
; Sequence 14013, Application US/10793479
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/10/793,479
; CURRENT FILING DATE: 2004-03-03
; PRIOR APPLICATION NUMBER: US/09/513,999
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 14013
; LENGTH: 442
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 363
; OTHER INFORMATION: s=g or c
US-10-793-479-14013

Query Match 100.0%; Score 20; DB 7; Length 442;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GCAAAACAGGATTAGATACCC 20
Db 288 GCAAAACAGGATTAGATACCC 307

RESULT 4
US-10-148-328B-74
; Sequence 74, Application US/10148328B
; GENERAL INFORMATION:
; APPLICANT: JEANNIN, PASCALE
; APPLICANT: FERNODET, JEAN-LUC
; APPLICANT: GUERINEAU, MICHEL
; APPLICANT: SIMONET, PASCAL
; TITLE OF INVENTION: METHOD FOR OBTAINING NUCLEIC ACIDS FROM AN ENVIRONMENT
; TITLE OF INVENTION: SAMPLE, RESULTING NUCLEIC ACIDS AND USE IN SYNTHESIS
; TITLE OF INVENTION: OF NOVEL COMPOUNDS
; FILE REFERENCE: 03806.0547-00000
; CURRENT APPLICATION NUMBER: US/10/148,328B
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: FR9915032
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/FR00/03311
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/209,800
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 74
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Unknown organism
; FEATURE:
; OTHER INFORMATION: Origin of the sequence: soil organism
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (494)

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; OTHER INFORMATION: variable nucleotide
US-10-148-328B-74

Query Match      100.0%; Score 20; DB 8; Length 600;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
   |||||
Db 265 GCAACAGGATTAGATACCC 284

RESULT 5
US-10-148-328B-75
; Sequence 75, Application US/10148328B
; GENERAL INFORMATION:
; APPLICANT: JEANNIN, PASCALE
; APPLICANT: PERNODET, JEAN-LUC
; APPLICANT: GUERINEAU, MICHEL
; APPLICANT: SIMONET, PASCAL
; TITLE OF INVENTION: METHOD FOR OBTAINING NUCLEIC ACIDS FROM AN ENVIRONMENT
; TITLE OF INVENTION: SAMPLE, RESULTING NUCLEIC ACIDS AND USE IN SYNTHESIS
; FILE REFERENCE: 03806.0547-00000
; CURRENT APPLICATION NUMBER: US/10/148,328B
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: FR9915032
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/FR00/03311
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/209,800
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 75
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Unknown organism
; FEATURE:
; OTHER INFORMATION: Origin of the sequence: soil organism
US-10-148-328B-75

Query Match      100.0%; Score 20; DB 8; Length 601;
Best Local Similarity 100.0%; Pred. No. 0.02;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
   |||||
Db 265 GCAACAGGATTAGATACCC 284

RESULT 6
PCT-IL04-00351-5/c
; Sequence 5, Application PC/TIL0400351
; GENERAL INFORMATION:
; APPLICANT: Rosenberg, Eugene
; APPLICANT: Ron, Elvira Z.
; APPLICANT: Koren, Orry
; TITLE OF INVENTION: BIOMEDIATION OF PETROLEUM POLLUTION USING WATER-INSOLUBLE URIC
; FILE REFERENCE: 27821
; CURRENT APPLICATION NUMBER: PCT/IL04/00351
; CURRENT FILING DATE: 2004-04-25
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 755
; TYPE: DNA
; ORGANISM: Acinetobacter sp. strain OK1
PCT-IL04-00351-5

Query Match      100.0%; Score 20; DB 1; Length 755;
Best Local Similarity 100.0%; Pred. No. 0.019;
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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
   |||||
Db 696 GCAACAGGATTAGATACCC 677

RESULT 7
US-10-486-307-5/c
; Sequence 5, Application US/10486307
; GENERAL INFORMATION:
; APPLICANT: E.I. duPont de Nemours, Inc.
; TITLE OF INVENTION: GENES ENCODING BAERYER-VILLIGER MONOOXYGENASES
; FILE REFERENCE: CL1789 PCT
; CURRENT APPLICATION NUMBER: US/10/486,307
; CURRENT FILING DATE: 2004-02-05
; PRIOR APPLICATION NUMBER: 60/315,546
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 5
; LENGTH: 895
; TYPE: DNA
; ORGANISM: Brachyomonas sp. CHX
US-10-486-307-5

Query Match      100.0%; Score 20; DB 8; Length 895;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
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Db 664 GCAACAGGATTAGATACCC 645

RESULT 8
US-10-148-328B-70
; Sequence 70, Application US/10148328B
; GENERAL INFORMATION:
; APPLICANT: JEANNIN, PASCALE
; APPLICANT: PERNODET, JEAN-LUC
; APPLICANT: GUERINEAU, MICHEL
; APPLICANT: SIMONET, PASCAL
; TITLE OF INVENTION: METHOD FOR OBTAINING NUCLEIC ACIDS FROM AN ENVIRONMENT
; TITLE OF INVENTION: SAMPLE, RESULTING NUCLEIC ACIDS AND USE IN SYNTHESIS
; FILE REFERENCE: 03806.0547-00000
; CURRENT APPLICATION NUMBER: US/10/148,328B
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: FR9915032
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/FR00/03311
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/209,800
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 70
; LENGTH: 1113
; TYPE: DNA
; ORGANISM: Unknown organism
; FEATURE:
; OTHER INFORMATION: Origin of the sequence: soil organism
US-10-148-328B-70

Query Match      100.0%; Score 20; DB 8; Length 1113;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
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Db 574 GCAACAGGATTAGATACCC 593
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RESULT 9
US-10-148-328B-100
; Sequence 100, Application US/10148328B
; GENERAL INFORMATION:
; APPLICANT: JEANNIN, PASCALE
; APPLICANT: PERNODET, JEAN-LUC
; APPLICANT: GUERINEAU, MICHEL
; APPLICANT: SIMONET, PASCAL
; TITLE OF INVENTION: METHOD FOR OBTAINING NUCLEIC ACIDS FROM AN ENVIRONMENT
; TITLE OF INVENTION: SAMPLE, RESULTING NUCLEIC ACIDS AND USE IN SYNTHESIS
; TITLE OF INVENTION: OF NOVEL COMPOUNDS
; FILE REFERENCE: 03806.0547-00000
; CURRENT APPLICATION NUMBER: US/10/148,328B
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: FR9915032
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/FR00/03311
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/209,800
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 100
; LENGTH: 1197
; TYPE: DNA
; ORGANISM: Unknown organism
; FEATURE:
; OTHER INFORMATION: Origin of the sequence: soil organism
US-10-148-328B-100

Query Match      100.0%; Score 20; DB 8; Length 1197;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GCAAAACAGGATTAGATACCC 20
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DB      642 GCAAAACAGGATTAGATACCC 661

RESULT 10
US-10-148-328B-81
; Sequence 81, Application US/10148328B
; GENERAL INFORMATION:
; APPLICANT: JEANNIN, PASCALE
; APPLICANT: PERNODET, JEAN-LUC
; APPLICANT: GUERINEAU, MICHEL
; APPLICANT: SIMONET, PASCAL
; TITLE OF INVENTION: METHOD FOR OBTAINING NUCLEIC ACIDS FROM AN ENVIRONMENT
; TITLE OF INVENTION: SAMPLE, RESULTING NUCLEIC ACIDS AND USE IN SYNTHESIS
; TITLE OF INVENTION: OF NOVEL COMPOUNDS
; FILE REFERENCE: 03806.0547-00000
; CURRENT APPLICATION NUMBER: US/10/148,328B
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: FR9915032
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/FR00/03311
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/209,800
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 81
; LENGTH: 1210
; TYPE: DNA
; ORGANISM: Unknown organism
; FEATURE:
; OTHER INFORMATION: Origin of the sequence: soil organism
US-10-148-328B-81

Query Match      100.0%; Score 20; DB 8; Length 1210;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GCAAAACAGGATTAGATACCC 20
        |||||
DB      642 GCAAAACAGGATTAGATACCC 661

RESULT 11
US-10-148-328B-66
; Sequence 66, Application US/10148328B
; GENERAL INFORMATION:
; APPLICANT: JEANNIN, PASCALE
; APPLICANT: PERNODET, JEAN-LUC
; APPLICANT: GUERINEAU, MICHEL
; APPLICANT: SIMONET, PASCAL
; TITLE OF INVENTION: METHOD FOR OBTAINING NUCLEIC ACIDS FROM AN ENVIRONMENT
; TITLE OF INVENTION: SAMPLE, RESULTING NUCLEIC ACIDS AND USE IN SYNTHESIS
; TITLE OF INVENTION: OF NOVEL COMPOUNDS
; FILE REFERENCE: 03806.0547-00000
; CURRENT APPLICATION NUMBER: US/10/148,328B
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: FR9915032
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/FR00/03311
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/209,800
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 66
; LENGTH: 1223
; TYPE: DNA
; ORGANISM: Unknown organism
; FEATURE:
; OTHER INFORMATION: Origin of the sequence: soil organism
US-10-148-328B-66

Query Match      100.0%; Score 20; DB 8; Length 1223;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GCAAAACAGGATTAGATACCC 20
        |||||
DB      636 GCAAAACAGGATTAGATACCC 635

RESULT 12
US-10-148-328B-71
; Sequence 71, Application US/10148328B
; GENERAL INFORMATION:
; APPLICANT: JEANNIN, PASCALE
; APPLICANT: PERNODET, JEAN-LUC
; APPLICANT: GUERINEAU, MICHEL
; APPLICANT: SIMONET, PASCAL
; TITLE OF INVENTION: METHOD FOR OBTAINING NUCLEIC ACIDS FROM AN ENVIRONMENT
; TITLE OF INVENTION: SAMPLE, RESULTING NUCLEIC ACIDS AND USE IN SYNTHESIS
; TITLE OF INVENTION: OF NOVEL COMPOUNDS
; FILE REFERENCE: 03806.0547-00000
; CURRENT APPLICATION NUMBER: US/10/148,328B
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: FR9915032
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/FR00/03311
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/209,800
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 71
; LENGTH: 1225
; TYPE: DNA
; ORGANISM: Unknown organism
; FEATURE:
; OTHER INFORMATION: Origin of the sequence: soil organism
US-10-148-328B-71
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US-10-148-328B-71
Query Match      100.0%; Score 20; DB 8; Length 1225;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACACAGGATTAGATACCC 20
   |||||
Db 641 GCAACACAGGATTAGATACCC 660

RESULT 13
US-10-148-328B-98
; Sequence 98, Application US/10148328B
; GENERAL INFORMATION:
; APPLICANT: JEANNIN, PASCALE
; APPLICANT: PERNODET, JEAN-LUC
; APPLICANT: GUERINEAU, MICHEL
; APPLICANT: SIMONET, PASCAL
; TITLE OF INVENTION: METHOD FOR OBTAINING NUCLEIC ACIDS FROM AN ENVIRONMENT
; TITLE OF INVENTION: SAMPLE, RESULTING NUCLEIC ACIDS AND USE IN SYNTHESIS
; TITLE OF INVENTION: OF NOVEL COMPOUNDS
; FILE REFERENCE: 03806.0547-00000
; CURRENT APPLICATION NUMBER: US/10/148,328B
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: FR9915032
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/FR00/03311
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/209,800
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 98
; LENGTH: 1233
; TYPE: DNA
; ORGANISM: Unknown organism
; FEATURE:
; OTHER INFORMATION: Origin of the sequence: soil organism
; NAME/KEY: modified_base
; LOCATION: (435)
; OTHER INFORMATION: variable nucleotide
US-10-148-328B-98

Query Match      100.0%; Score 20; DB 8; Length 1233;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACACAGGATTAGATACCC 20
   |||||
Db 644 GCAACACAGGATTAGATACCC 663

RESULT 14
US-10-148-328B-76
; Sequence 76, Application US/10148328B
; GENERAL INFORMATION:
; APPLICANT: JEANNIN, PASCALE
; APPLICANT: PERNODET, JEAN-LUC
; APPLICANT: GUERINEAU, MICHEL
; APPLICANT: SIMONET, PASCAL
; TITLE OF INVENTION: METHOD FOR OBTAINING NUCLEIC ACIDS FROM AN ENVIRONMENT
; TITLE OF INVENTION: SAMPLE, RESULTING NUCLEIC ACIDS AND USE IN SYNTHESIS
; TITLE OF INVENTION: OF NOVEL COMPOUNDS
; FILE REFERENCE: 03806.0547-00000
; CURRENT APPLICATION NUMBER: US/10/148,328B
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: FR9915032
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/FR00/03311
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/209,800
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 97
; LENGTH: 1237
; TYPE: DNA
; ORGANISM: Unknown organism
; FEATURE:
; OTHER INFORMATION: Origin of the sequence: soil organism
US-10-148-328B-67

Query Match      100.0%; Score 20; DB 8; Length 1237;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACACAGGATTAGATACCC 20
   |||||
Db 648 GCAACACAGGATTAGATACCC 667

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Job time : 200.036 secs

US-10-148-328B-76
Query Match      100.0%; Score 20; DB 8; Length 1236;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACACAGGATTAGATACCC 20
   |||||
Db 653 GCAACACAGGATTAGATACCC 672

RESULT 15
US-10-148-328B-67
; Sequence 67, Application US/10148328B
; GENERAL INFORMATION:
; APPLICANT: JEANNIN, PASCALE
; APPLICANT: PERNODET, JEAN-LUC
; APPLICANT: GUERINEAU, MICHEL
; APPLICANT: SIMONET, PASCAL
; TITLE OF INVENTION: METHOD FOR OBTAINING NUCLEIC ACIDS FROM AN ENVIRONMENT
; TITLE OF INVENTION: SAMPLE, RESULTING NUCLEIC ACIDS AND USE IN SYNTHESIS
; TITLE OF INVENTION: OF NOVEL COMPOUNDS
; FILE REFERENCE: 03806.0547-00000
; CURRENT APPLICATION NUMBER: US/10/148,328B
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: FR9915032
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/FR00/03311
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/209,800
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 67
; LENGTH: 1237
; TYPE: DNA
; ORGANISM: Unknown organism
; FEATURE:
; OTHER INFORMATION: Origin of the sequence: soil organism
US-10-148-328B-67

Query Match      100.0%; Score 20; DB 8; Length 1237;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACACAGGATTAGATACCC 20
   |||||
Db 648 GCAACACAGGATTAGATACCC 667

Search completed: August 4, 2004, 11:43:43
Job time : 200.036 secs
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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 06:43:54 ; Search time 199.036 Seconds
(without alignments)
247.629 Million cell updates/sec

Title: US-09-940-860-2

Perfect score: 20

Sequence: 1 ggagggaaggcaggatgacg 20

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 4754066 seqs, 1232178907 residues

Word size : 0

Total number of hits satisfying chosen parameters: 9508132

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Pending Patents NA, New.*

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3: /cgn2_6/prodata/2/pna/US07_NEW_COMB.seq.*
4: /cgn2_6/prodata/2/pna/US08_NEW_COMB.seq.*
5: /cgn2_6/prodata/2/pna/US09_NEW_COMB.seq.*
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8: /cgn2_6/prodata/2/pna/US10_NEW_COMB.seq.*
9: /cgn2_6/prodata/2/pna/US60_NEW_COMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	18	90.0	850	US-10-425-115-28998	Sequence 28998, A
C 2	18	90.0	2551	US-10-425-115-29000	Sequence 29000, A
C 3	17	85.0	700	US-10-425-115-109468	Sequence 109468, A
C 4	17	85.0	1073	US-10-473-974-43	Sequence 43, Appl
C 5	17	85.0	1847	US-10-767-701-14989	Sequence 14989, A
C 6	17	85.0	2097	US-10-425-115-151508	Sequence 151508, A
C 7	16	80.0	352	US-10-425-115-130914	Sequence 130914, A
C 8	16	80.0	407	US-10-767-701-22770	Sequence 22770, A
C 9	16	80.0	510	US-10-767-701-28210	Sequence 28210, A
C 10	16	80.0	551	US-10-425-115-38956	Sequence 38956, A
C 11	16	80.0	677	US-10-425-115-122047	Sequence 122047, A
C 12	16	80.0	788	US-10-425-115-126075	Sequence 126075, A
C 13	16	80.0	1601	US-10-425-115-158496	Sequence 158496, A
C 14	16	80.0	5536	US-10-221-714B-297	Sequence 297, App
C 15	15	75.0	144	US-10-674-124A-38	Sequence 38, Appl
C 16	15	75.0	201	US-60-582-609-23584	Sequence 23584, A
C 17	15	75.0	201	US-60-582-609-35417	Sequence 35417, A
C 18	15	75.0	285	US-10-767-701-30539	Sequence 30539, A
C 19	15	75.0	290	US-10-430-201-4831	Sequence 4831, Ap
C 20	15	75.0	290	US-10-430-201-4832	Sequence 4832, Ap
C 21	15	75.0	383	US-10-425-115-169825	Sequence 169825, A
C 22	15	75.0	390	US-10-779-543-13155	Sequence 13155, A
C 23	15	75.0	400	US-10-779-543-12976	Sequence 12976, A
C 24	15	75.0	412	US-10-425-115-48631	Sequence 48631, A

C 25 15 75.0 441 6 US-10-425-115-70573 Sequence 70573, A
C 26 15 75.0 454 7 US-10-767-701-22517 Sequence 22517, A
C 27 15 75.0 547 5 US-09-397-206A-4333 Sequence 4333, Ap
C 28 15 75.0 554 6 US-10-425-115-125836 Sequence 125836, A
C 29 15 75.0 561 6 US-10-425-115-160109 Sequence 160109, A
C 30 15 75.0 697 6 US-10-425-115-38986 Sequence 38986, A
C 31 15 75.0 781 6 US-10-425-115-136893 Sequence 136893, A
C 32 15 75.0 788 7 US-10-363-345A-26387 Sequence 26387, A
C 33 15 75.0 788 7 US-10-363-345A-26388 Sequence 26388, A
C 34 15 75.0 824 6 US-10-425-115-121769 Sequence 121769, A
C 35 15 75.0 889 7 US-10-620-246-5 Sequence 5, Appl
C 36 15 75.0 907 6 US-10-425-115-4377 Sequence 4377, Ap
C 37 15 75.0 916 7 US-10-363-345A-21759 Sequence 21759, A
C 38 15 75.0 916 7 US-10-363-345A-21760 Sequence 21760, A
C 39 15 75.0 927 7 US-10-363-345A-40085 Sequence 40085, A
C 40 15 75.0 927 7 US-10-363-345A-40086 Sequence 40086, A
C 41 15 75.0 976 6 US-10-425-115-103979 Sequence 103979, A
C 42 15 75.0 1123 6 US-10-425-115-153306 Sequence 153306, A
C 43 15 75.0 1175 7 US-10-767-701-13151 Sequence 13151, A
C 44 15 75.0 1303 6 US-10-425-115-99222 Sequence 99222, A
C 45 15 75.0 1316 7 US-10-767-701-13537 Sequence 13537, A

ALIGNMENTS

RESULT 1

US-10-425-115-28998/c
; Sequence 28998, Application US/10425115
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 28998
; LENGTH: 850
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(850)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MNT4577_126457C.1
US-10-425-115-28998

Query Match 90.0%; Score 18; DB 6; Length 850;
Best Local Similarity 100.0%; Pred.No. 0.71;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAGGCGGAGGATGA 18
|||
DB 617 GGAGGAGGCGGAGGATGA 600

RESULT 2

US-10-425-115-29000
; Sequence 29000, Application US/10425115
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115

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; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 29000
; LENGTH: 2551
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_126459C.1
US-10-425-115-29000

Query Match      90.0%; Score 18; DB 6; Length 2551;
Best Local Similarity 100.0%; Pred. No. 0.73;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GGAGGAGGCGGAGGATGA 18
Db      1853 GGAGGAGGCGGAGGATGA 1870
|||||

RESULT 3
US-10-425-115-109468/c
; Sequence 109468, Application US/10425115
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 109468
; LENGTH: 700
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_31330C.1
US-10-425-115-109468

Query Match      85.0%; Score 17; DB 6; Length 700;
Best Local Similarity 100.0%; Pred. No. 2.5;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 GAGGAGGCGGAGGATGA 18
Db      188 GAGGAGGCGGAGGATGA 172
|||||

RESULT 4
US-10-473-974-43
; Sequence 43, Application US/10473974
; GENERAL INFORMATION:
; APPLICANT: GARCIA, TERESA
; APPLICANT: ROMAN, SERGIO
; APPLICANT: BARON, ROLAND
; APPLICANT: CALL, KATHERINE
; APPLICANT: THEILHABER, JOACHIM
; APPLICANT: CONNOLLY, TIMOTHY
; APPLICANT: JACKSON, AMANDA
; APPLICANT: BUSHNELL, STEVEN
; APPLICANT: RAWADI, GEORGES
; TITLE OF INVENTION: GENES INVOLVED IN OSTEOGENESIS, AND METHODS OF USE
; FILE REFERENCE: 37991-0023
; CURRENT APPLICATION NUMBER: US/10/473,974
; CURRENT FILING DATE: 2003-10-03
; PRIOR FILING DATE: PCT/IB02/02211
; PRIOR FILING DATE: 2002-04-05
; PRIOR APPLICATION NUMBER: 60/281,400
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 246
; SOFTWARE: PatentIn Ver. 3.2

; SEQ ID NO 43
; LENGTH: 1073
; TYPE: DNA
; ORGANISM: Mus musculus
; US-10-473-974-43

Query Match      85.0%; Score 17; DB 7; Length 1073;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GGAGGAGGCGGAGGATG 17
Db      1005 GGAGGAGGCGGAGGATG 1021
|||||

RESULT 5
US-10-767-701-14989
; Sequence 14989, Application US/10767701
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(5335)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 14989
; LENGTH: 1847
; TYPE: DNA
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-CLUS9317_1
US-10-767-701-14989

Query Match      85.0%; Score 17; DB 7; Length 1847;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      2 GAGGAGGCGGAGGATGA 18
Db      1631 GAGGAGGCGGAGGATGA 1647
|||||

RESULT 6
US-10-425-115-151508
; Sequence 151508, Application US/10425115
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 151508
; LENGTH: 2097
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1) (2097)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_69698C.1
US-10-425-115-151508

Query Match      85.0%; Score 17; DB 6; Length 2097;
Best Local Similarity 100.0%; Pred. No. 2.6;
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```
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 GAGGAAGCGGAGGATCA 18
    |||||
Db 1592 GAGGAAGCGGAGGATCA 1608

RESULT 7
US-10-425-115-130914
; Sequence 130914, Application US/10425115
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 130914
; LENGTH: 352
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_50875C.1
US-10-425-115-130914

Query Match 80.0%; Score 16; DB 6; Length 352;
Best Local Similarity 100.0%; Pred. No. 8.9;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 GAAGCGGAGGATGAG 20
    |||||
Db 251 GAAGCGGAGGATGAG 266

RESULT 8
US-10-767-701-22770/c
; Sequence 22770, Application US/10767701
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 22770
; LENGTH: 407
; TYPE: DNA
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: 14513702
US-10-767-701-22770

Query Match 80.0%; Score 16; DB 7; Length 407;
Best Local Similarity 100.0%; Pred. No. 9;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 GAGGAAGCGGAGGATG 17
    |||||
Db 167 GAGGAAGCGGAGGATG 152

RESULT 9
US-10-767-701-28210
; Sequence 28210, Application US/10767701
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
```

```
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 28210
; LENGTH: 510
; TYPE: DNA
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: 7535963
US-10-767-701-28210

Query Match 80.0%; Score 16; DB 7; Length 510;
Best Local Similarity 100.0%; Pred. No. 9;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAGGAAGCGGAGGAT 16
    |||||
Db 466 GGAGGAAGCGGAGGAT 481

RESULT 10
US-10-425-115-38956
; Sequence 38956, Application US/10425115
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 38956
; LENGTH: 551
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)-(551)
; OTHER INFORMATION: unsure at all n locations
; OTHER INFORMATION: Clone ID: MRT4577_135529C.1
US-10-425-115-38956

Query Match 80.0%; Score 16; DB 6; Length 551;
Best Local Similarity 100.0%; Pred. No. 9;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAGGAAGCGGAGGAT 16
    |||||
Db 390 GGAGGAAGCGGAGGAT 405

RESULT 11
US-10-425-115-122047/c
; Sequence 122047, Application US/10425115
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
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; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 122047
; LENGTH: 677
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_42791C.1
US-10-425-115-122047

Query Match 80.0%; Score 16; DB 6; Length 677;
Best Local Similarity 100.0%; Pred. No. 9.1;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GAGGAGGCGGAGGATG 17
|||||
DB 415 GAGGAGGCGGAGGATG 400

RESULT 12

US-10-425-115-126075/c
; Sequence 126075, Application US/10425115
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 126075
; LENGTH: 788
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_4644C.1
US-10-425-115-126075

Query Match 80.0%; Score 16; DB 6; Length 788;
Best Local Similarity 100.0%; Pred. No. 9.1;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 GAAGGCGGAGGATGACG 20
|||||
DB 254 GAAGGCGGAGGATGACG 239

RESULT 13

US-10-425-115-158496/c
; Sequence 158496, Application US/10425115
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 158496
; LENGTH: 1601
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_76128C.1
US-10-425-115-158496

Query Match 80.0%; Score 16; DB 6; Length 1601;
Best Local Similarity 100.0%; Pred. No. 9.2;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GAGGAGGCGGAGGATG 17
|||||
DB 350 GAGGAGGCGGAGGATG 335

RESULT 14

US-10-221-714B-297
; Sequence 297, Application US/10221714B
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with
; FILE REFERENCE: 5013.1005
; CURRENT APPLICATION NUMBER: US/10/221,714B
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: PCT/EP01/02955
; PRIOR FILING DATE: 2001-03-15
; PRIOR APPLICATION NUMBER: DE 10013847.0
; PRIOR FILING DATE: 2000-03-15
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 540
; SEQ ID NO 297
; LENGTH: 5536
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chemically treated genomic DNA (Homo sapiens)
US-10-221-714B-297

Query Match 80.0%; Score 16; DB 6; Length 5536;
Best Local Similarity 100.0%; Pred. No. 9.5;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAGGCGGAGGAT 16
|||||
DB 1968 GGAGGAGGCGGAGGAT 1983

RESULT 15

US-10-674-124A-38/c
; Sequence 38, Application US/10674124A
; GENERAL INFORMATION:
; APPLICANT: INOKO, Hidetoshi
; APPLICANT: TAMIYA, Gen
; TITLE OF INVENTION: GENE MAPPING METHOD USING MICROSATELLITE
; FILE REFERENCE: ORIN-003CIP
; CURRENT APPLICATION NUMBER: US/10/674,124A
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 10/257,511
; PRIOR FILING DATE: 2003-03-07
; PRIOR APPLICATION NUMBER: PCT/JF00/07621
; PRIOR FILING DATE: 2000-10-30
; PRIOR APPLICATION NUMBER: JP2000-112699
; PRIOR FILING DATE: 2000-04-13
; PRIOR APPLICATION NUMBER: JP2002-327516
; PRIOR FILING DATE: 2002-09-28
; PRIOR APPLICATION NUMBER: JP2002-383869
; PRIOR FILING DATE: 2002-12-09
; NUMBER OF SEQ ID NOS: 27110
; SEQ ID NO 38
; LENGTH: 144

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; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: DIS07_10007639
; FEATURE:
; OTHER INFORMATION: Located on chromosome 1
; FEATURE:
; OTHER INFORMATION: Distance between a terminus base of telomere on
; OTHER INFORMATION: chromosomal short arm and 5'-terminus of this base
; OTHER INFORMATION: sequence : 5692908
; FEATURE:
; OTHER INFORMATION: Distance between 3'-terminus of neighbour sequence of
; OTHER INFORMATION: sequence listing upward to telomere on chrosomal short arm and
; OTHER INFORMATION: 5'-terminus of this base sequence : 188636
US-10-674-124A-38

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Query Match      75.0%; Score 15; DB 7; Length 144;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGAGGAAGCGGAGGA 15
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Db      28 GGAGGAAGCGGAGGA 14

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 Job time : 200.036 secs

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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 07:44:29 ; Search time 180.964 Seconds
(without alignments)
541.892 Million cell updates/sec

Title: US-09-940-860-1

Perfect score: 20

Sequence: 1 gcaaacaggattagatacc 20

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 3222919 seqs, 2451570024 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6445838

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA:*

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2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:
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14: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
15: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
16: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
17: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
18: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
19: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	11	US-09-940-860-1
2	20	100.0	25	17	US-10-715-220-1
3	20	100.0	30	11	US-09-940-860-6
4	20	100.0	50	12	US-10-343-319-76
5	20	100.0	50	12	US-10-343-319-77
6	20	100.0	50	12	US-10-343-319-79
7	20	100.0	50	12	US-10-343-319-80
8	20	100.0	50	12	US-10-343-319-81
9	20	100.0	50	12	US-10-343-319-82
10	20	100.0	50	12	US-10-343-319-83
11	20	100.0	50	12	US-10-343-319-84
12	20	100.0	50	12	US-10-343-319-85
13	20	100.0	50	12	US-10-343-319-87
14	20	100.0	50	12	US-10-343-319-88

15	20	100.0	50	12	US-10-343-319-89	Sequence 89, Appl
16	20	100.0	50	12	US-10-343-319-90	Sequence 90, Appl
17	20	100.0	50	12	US-10-343-319-91	Sequence 91, Appl
18	20	100.0	50	12	US-10-343-319-98	Sequence 98, Appl
19	20	100.0	50	12	US-10-343-319-99	Sequence 99, Appl
20	20	100.0	50	12	US-10-343-319-102	Sequence 102, Appl
21	20	100.0	50	12	US-10-343-319-104	Sequence 104, Appl
22	20	100.0	50	12	US-10-343-319-105	Sequence 105, Appl
23	20	100.0	293	17	US-10-410-040A-19	Sequence 19, Appl
24	20	100.0	294	17	US-10-410-040A-15	Sequence 15, Appl
25	20	100.0	294	17	US-10-410-040A-16	Sequence 16, Appl
26	20	100.0	294	17	US-10-410-040A-17	Sequence 17, Appl
27	20	100.0	294	17	US-10-410-040A-18	Sequence 18, Appl
28	20	100.0	294	17	US-10-410-040A-20	Sequence 20, Appl
29	20	100.0	294	17	US-10-410-040A-21	Sequence 21, Appl
30	20	100.0	294	17	US-10-410-040A-23	Sequence 23, Appl
31	20	100.0	549	10	US-09-991-936-1717	Sequence 1717, Ap
32	20	100.0	571	9	US-09-879-536-755	Sequence 755, App
33	20	100.0	624	9	US-09-879-536-728	Sequence 728, App
34	20	100.0	665	9	US-09-879-536-476	Sequence 476, App
35	20	100.0	672	9	US-09-879-536-450	Sequence 450, App
36	20	100.0	856	15	US-10-213-878-5	Sequence 5, Appli
37	20	100.0	856	15	US-10-214-059-5	Sequence 5, Appli
38	20	100.0	895	15	US-10-230-026-5	Sequence 5, Appli
39	20	100.0	1009	9	US-09-900-876-1	Sequence 1, Appli
40	20	100.0	1070	9	US-09-737-297-2	Sequence 2, Appli
41	20	100.0	1140	9	US-09-737-297-5	Sequence 5, Appli
42	20	100.0	1208	9	US-09-894-457-1	Sequence 1, Appli
43	20	100.0	1320	15	US-10-168-337A-7	Sequence 7, Appli
44	20	100.0	1322	15	US-10-168-337A-5	Sequence 5, Appli
45	20	100.0	1335	15	US-10-029-397A-31	Sequence 31, Appl

ALIGNMENTS

RESULT 1
US-09-940-860-1
; Sequence 1, Application US/09940860
; Publication No. US2004000555A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, Richard
; TITLE OF INVENTION: MOLECULAR DIAGNOSIS OF BACTEREMIA
; FILE REFERENCE: 01107.00185
; CURRENT APPLICATION NUMBER: US/09/940,860
; CURRENT FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/229,376
; PRIOR FILING DATE: 2000-08-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic amplification primer
US-09-940-860-1

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GCAAAACAGGATTAGATACCC 20
|||||
Db 1 GCAAAACAGGATTAGATACCC 20

RESULT 2
US-10-715-220-1
; Sequence 1, Application US/10715220
; Publication No. US20040077015A1
; GENERAL INFORMATION:

APPLICANT: Voidani, A.
TITLE OF INVENTION: DETECTION OF MYCOPLASMA IN PATIENTS WITH
FILE REFERENCE: IMSCI.009A
CURRENT APPLICATION NUMBER: US/10/715,220
CURRENT FILING DATE: 2003-11-17
PRIOR APPLICATION NUMBER: US/09/283,655
PRIOR FILING DATE: 1999-04-01
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1
LENGTH: 25
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide primer
US-10-715-220-1
Query Match 100.0%; Score 20; DB 17; Length 25;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCAACACAGGATTAGATACCC 20
DB 5 GCAACACAGGATTAGATACCC 24
RESULT 3
US-09-940-860-6
Sequence 6, Application US/09940860
Publication No. US2004000555A1
GENERAL INFORMATION:
APPLICANT: Rothman, Richard
APPLICANT: Majumdar, Maulik
TITLE OF INVENTION: MOLECULAR DIAGNOSIS OF BACTEREMIA
FILE REFERENCE: 01107.00185
CURRENT APPLICATION NUMBER: US/09/940,860
CURRENT FILING DATE: 2001-08-29
PRIOR APPLICATION NUMBER: 60/229,376
PRIOR FILING DATE: 2000-08-31
NUMBER OF SEQ ID NOS: 7
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 30
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic amplification primer
US-09-940-860-6
Query Match 100.0%; Score 20; DB 11; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCAACACAGGATTAGATACCC 20
DB 2 GCAACACAGGATTAGATACCC 21
RESULT 4
US-10-343-319-76
Sequence 76, Application US/10343319
Publication No. US20040072242A1
GENERAL INFORMATION:
APPLICANT: Hunter, Neil
APPLICANT: Jacques, Nicholas A.
APPLICANT: Martin, Fjelda E.
APPLICANT: Nardkani, Mangala A.
TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
FILE REFERENCE: DAVI139.002APC
CURRENT APPLICATION NUMBER: US/10/343,319
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/AU01/00933

PRIOR FILING DATE: 2001-07-27
PRIOR APPLICATION NUMBER: AU PQ09090/2000
NUMBER OF SEQ ID NOS: 106
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 76
LENGTH: 50
TYPE: DNA
ORGANISM: Campylobacter jejuni
FEATURE:
NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: Helicobacter pylori also.
US-10-343-319-76
Query Match 100.0%; Score 20; DB 12; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCAACACAGGATTAGATACCC 20
DB 16 GCAACACAGGATTAGATACCC 35
RESULT 5
US-10-343-319-77
Sequence 77, Application US/10343319
Publication No. US20040072242A1
GENERAL INFORMATION:
APPLICANT: Hunter, Neil
APPLICANT: Jacques, Nicholas A.
APPLICANT: Martin, Fjelda E.
APPLICANT: Nardkani, Mangala A.
TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
FILE REFERENCE: DAVI139.002APC
CURRENT APPLICATION NUMBER: US/10/343,319
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/AU01/00933
PRIOR FILING DATE: 2001-07-27
PRIOR APPLICATION NUMBER: AU PQ09090/2000
PRIOR FILING DATE: 2000-07-28
NUMBER OF SEQ ID NOS: 106
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 77
LENGTH: 50
TYPE: DNA
ORGANISM: Treponema denticola
OTHER INFORMATION:
US-10-343-319-77
Query Match 100.0%; Score 20; DB 12; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCAACACAGGATTAGATACCC 20
DB 16 GCAACACAGGATTAGATACCC 35
RESULT 6
US-10-343-319-79
Sequence 79, Application US/10343319
Publication No. US20040072242A1
GENERAL INFORMATION:
APPLICANT: Hunter, Neil
APPLICANT: Jacques, Nicholas A.
APPLICANT: Martin, Fjelda E.
APPLICANT: Nardkani, Mangala A.
TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
FILE REFERENCE: DAVI139.002APC
CURRENT APPLICATION NUMBER: US/10/343,319
CURRENT FILING DATE: 2003-09-17
PRIOR APPLICATION NUMBER: PCT/AU01/00933
PRIOR FILING DATE: 2001-07-27

```
; PRIOR APPLICATION NUMBER: AU PQ09090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 79
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Leptothrix mobilis
US-10-343-319-79

Query Match      100.0%; Score 20; DB 12; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GCAAAACAGGATTAGATACCC 20
      |||
Db      16 GCAAAACAGGATTAGATACCC 35

RESULT 7
US-10-343-319-80
; Sequence 80, Application US/10343319
; Publication No. US20040072242A1
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ09090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Thiomicrospira denitrificans
US-10-343-319-80

Query Match      100.0%; Score 20; DB 12; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GCAAAACAGGATTAGATACCC 20
      |||
Db      16 GCAAAACAGGATTAGATACCC 35

RESULT 8
US-10-343-319-81
; Sequence 81, Application US/10343319
; Publication No. US20040072242A1
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ09090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
```

```
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Neisseria meningitidis
US-10-343-319-81

Query Match      100.0%; Score 20; DB 12; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GCAAAACAGGATTAGATACCC 20
      |||
Db      16 GCAAAACAGGATTAGATACCC 35

RESULT 9
US-10-343-319-82
; Sequence 82, Application US/10343319
; Publication No. US20040072242A1
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ09090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Actinobacillus actinomycetemcomitans
US-10-343-319-82

Query Match      100.0%; Score 20; DB 12; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GCAAAACAGGATTAGATACCC 20
      |||
Db      16 GCAAAACAGGATTAGATACCC 35

RESULT 10
US-10-343-319-83
; Sequence 83, Application US/10343319
; Publication No. US20040072242A1
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ09090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 83
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Haemophilus influenzae
US-10-343-319-83
```

Query Match 100.0%; Score 20; DB 12; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAAACAGGATTAGATACCC 20
Db 16 GCAAACAGGATTAGATACCC 35

RESULT 11

US-10-343-319-84
; Sequence 84, Application US/10343319
; Publication No. US20040072242A1
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Margala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ9090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 84
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Escherichia coli
US-10-343-319-84

Query Match 100.0%; Score 20; DB 12; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAAACAGGATTAGATACCC 20
Db 16 GCAAACAGGATTAGATACCC 35

RESULT 12

US-10-343-319-85
; Sequence 85, Application US/10343319
; Publication No. US20040072242A1
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Margala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ9090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 85
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Salmonella typhi
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (0)..(0)
; OTHER INFORMATION: also Vibrio cholerae, Pseudomonas aeruginosa, and
; OTHER INFORMATION: Rhodospirillum rubrum.
US-10-343-319-85

Query Match 100.0%; Score 20; DB 12; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAAACAGGATTAGATACCC 20
Db 16 GCAAACAGGATTAGATACCC 35

RESULT 13

US-10-343-319-87
; Sequence 87, Application US/10343319
; Publication No. US20040072242A1
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Margala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ9090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 87
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Legionella pneumophila
US-10-343-319-87

Query Match 100.0%; Score 20; DB 12; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAAACAGGATTAGATACCC 20
Db 16 GCAAACAGGATTAGATACCC 35

RESULT 14

US-10-343-319-88
; Sequence 88, Application US/10343319
; Publication No. US20040072242A1
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Margala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAVI139.002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ9090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 88
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Caulobacter vibrioides
US-10-343-319-88

Query Match 100.0%; Score 20; DB 12; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.024;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAAACAGGATTAGATACCC 20

Db 16 GCAACACAGGATTAGATACCC 35

```

RESULT 15
US-10-343-319-89
; Sequence 89; Application US/10343319
; Publication No. US20040072242A1
; GENERAL INFORMATION:
; APPLICANT: Hunter, Neil
; APPLICANT: Jacques, Nicholas A.
; APPLICANT: Martin, Fjelda E.
; APPLICANT: Nardkani, Mangala A.
; TITLE OF INVENTION: A METHOD OF DETECTING MICROORGANISMS
; FILE REFERENCE: DAV1139 002APC
; CURRENT APPLICATION NUMBER: US/10/343,319
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/AU01/00933
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: AU PQ9090/2000
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 89
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Nitrobacter winogradskyi
US-10-343-319-89

```

Query Match 100.0%; Score 20; DB 12; Length 50;
 Best Local Similarity 100.0%; Pred. No. 0.024;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACACAGGATTAGATACCC 20
 Db 16 GCAACACAGGATTAGATACCC 35

Search completed: August 4, 2004, 11:56:21
 Job time : 180.964 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 07:44:29 ; Search time 180.964 Seconds
(without alignments)
541.892 Million cell updates/sec

Title: US-09-940-860-2

Perfect score: 20

Sequence: 1 ggaggaaggcaggatgacg 20

Scoring table:

OLIGO NUC

Gapop 60.0 , Gapext 60.0

Searched: 3222919 seqs, 2451570024 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6445838

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US05_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	11	US-09-940-860-2
2	20	100.0	30	11	US-09-940-860-7
3	20	100.0	1548	9	US-09-726-774-11
4	20	100.0	1548	17	US-10-719-633-11
5	20	100.0	1550	11	US-09-940-860-5
6	20	100.0	1230025	16	US-10-289-762-1
7	18	90.0	2123	13	US-10-425-114-4575
8	18	90.0	2738	17	US-10-437-963-25445
9	17	85.0	1143	17	US-10-437-963-4673
10	17	85.0	1305	13	US-10-425-114-32946
11	17	85.0	2124	13	US-10-425-114-32781
12	17	85.0	2145	16	US-10-369-493-35514
13	16	80.0	338	13	US-10-425-114-25403
14	16	80.0	1251	13	US-10-282-122A-17957

c 15	16	80.0	1543	13	US-10-425-114-15476
c 16	16	80.0	1554	13	US-10-425-114-3338
c 17	16	80.0	1594	13	US-10-425-114-15935
c 18	16	80.0	3962	17	US-10-437-963-72402
c 19	16	80.0	5536	13	US-10-221-714A-297
c 20	16	80.0	5536	13	US-10-311-455-1805
c 21	15	75.0	168	17	US-10-437-963-26084
c 22	15	75.0	178	9	US-09-923-876-5759
c 23	15	75.0	178	11	US-09-923-876-5759
c 24	15	75.0	236	12	US-09-922-293-666
c 25	15	75.0	254	12	US-09-922-293-989
c 26	15	75.0	266	12	US-09-922-293-504
c 27	15	75.0	274	12	US-09-922-293-509
c 28	15	75.0	281	9	US-09-922-293-873
c 29	15	75.0	281	12	US-09-922-293-506
c 30	15	75.0	293	12	US-09-922-293-508
c 31	15	75.0	294	9	US-09-924-093B-5844
c 32	15	75.0	313	17	US-10-437-963-67279
c 33	15	75.0	318	17	US-10-437-963-68928
c 34	15	75.0	320	12	US-09-922-293-503
c 35	15	75.0	357	9	US-09-770-791-589
c 36	15	75.0	405	9	US-09-867-701-4895
c 37	15	75.0	421	10	US-09-814-353-14381
c 38	15	75.0	455	10	US-09-814-353-1641
c 39	15	75.0	455	10	US-09-814-353-7997
c 40	15	75.0	499	13	US-10-342-887-2152
c 41	15	75.0	499	13	US-10-172-118-2152
c 42	15	75.0	525	9	US-09-938-842A-2377
c 43	15	75.0	525	11	US-09-938-842A-2377
c 44	15	75.0	543	17	US-10-437-963-4676
c 45	15	75.0	585	13	US-10-027-632-236613

ALIGNMENTS

RESULT 1
US-09-940-860-2
; Sequence 2, Application US/09940860
; Publication No. US2004000555A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, Richard
; APPLICANT: Majumdar, Maulik
; TITLE OF INVENTION: MOLECULAR DIAGNOSIS OF BACTEREMIA
; FILE REFERENCE: 01107.00185
; CURRENT APPLICATION NUMBER: US/09/940.860
; CURRENT FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/229,376
; PRIOR FILING DATE: 2000-08-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic amplification primer
US-09-940-860-2

Query Match 100.0%; Score 20; DB 11; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAGGAGGCGGAGGATGACG 20
Db 1 GGAGGAGGCGGAGGATGACG 20
RESULT 2
US-09-940-860-7
; Sequence 7, Application US/09940860
; Publication No. US2004000555A1
; GENERAL INFORMATION:

```

; APPLICANT: Rothman, Richard
; APPLICANT: Majmudar, Maulik
; TITLE OF INVENTION: MOLECULAR DIAGNOSIS OF BACTEREMIA
; FILE REFERENCE: 01107.00185
; CURRENT APPLICATION NUMBER: US/09/940,860
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/229,376
; PRIOR FILING DATE: 2000-08-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 30
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic amplification primer
US-09-940-860-7

```

```

Query Match      100.0%; Score 20; DB 11; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.094;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 GGAGGAAGCGGAGGATGACG 20
          |||||
DB      3 GGAGGAAGCGGAGGATGACG 22

```

RESULT 3

```

US-09-726-774-11
; Sequence 11, Application US/09726774
; Patent No. US20020082226A1
; GENERAL INFORMATION:
; APPLICANT: Iversen, Patrick L.
; TITLE OF INVENTION: Antisense Antibacterial Method and
; FILE REFERENCE: 0450-0032.30
; CURRENT APPLICATION NUMBER: US/09/726,774
; CURRENT FILING DATE: 2000-11-29
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: US 60/168,150
; NUMBER OF SEQ ID NOS: 139
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1548
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
US-09-726-774-11

```

```

Query Match      100.0%; Score 20; DB 9; Length 1548;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 GGAGGAAGCGGAGGATGACG 20
          |||||
DB      1179 GGAGGAAGCGGAGGATGACG 1198

```

RESULT 4

```

US-10-719-633-11
; Sequence 11, Application US/10719633
; Publication No. US20040137485A1
; GENERAL INFORMATION:
; APPLICANT: Iversen, Patrick L.
; TITLE OF INVENTION: Antisense Antibacterial Method and
; FILE REFERENCE: 0450-0032.30
; CURRENT APPLICATION NUMBER: US/10/719,633
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US/09/726,774
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: US 60/168,150
; PRIOR FILING DATE: 1999-11-29
; NUMBER OF SEQ ID NOS: 139

```

```

; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1548
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
US-10-719-633-11

```

```

Query Match      100.0%; Score 20; DB 17; Length 1548;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 GGAGGAAGCGGAGGATGACG 20
          |||||
DB      1179 GGAGGAAGCGGAGGATGACG 1198

```

RESULT 5

```

US-09-940-860-5
; Sequence 5, Application US/09940860
; Publication No. US2004000555A1
; GENERAL INFORMATION:
; APPLICANT: Rothman, Richard
; APPLICANT: Majmudar, Maulik
; TITLE OF INVENTION: MOLECULAR DIAGNOSIS OF BACTEREMIA
; FILE REFERENCE: 01107.00185
; CURRENT APPLICATION NUMBER: US/09/940,860
; CURRENT FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/229,376
; PRIOR FILING DATE: 2000-08-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1550
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
US-09-940-860-5

```

```

Query Match      100.0%; Score 20; DB 11; Length 1550;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 GGAGGAAGCGGAGGATGACG 20
          |||||
DB      1179 GGAGGAAGCGGAGGATGACG 1198

```

RESULT 6

```

US-10-289-762-1
; Sequence 1, Application US/10289762
; Publication No. US20040006218A1
; GENERAL INFORMATION:
; APPLICANT: Grifais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, preve
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/10/289,762
; CURRENT FILING DATE: 2003-03-27
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1
; LENGTH: 1230025
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(15000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (15001)-(30000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature

```



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FEATURE:
NAME/KEY: misc feature
LOCATION: (585001)..(600000)
OTHER INFORMATION: n=a or c or g or t
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NAME/KEY: misc feature
LOCATION: (600001)..(615000)
OTHER INFORMATION: n=a or c or g or t
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NAME/KEY: misc feature
LOCATION: (615001)..(630000)
OTHER INFORMATION: n=a or c or g or t
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NAME/KEY: misc feature
LOCATION: (630001)..(645000)
OTHER INFORMATION: n=a or c or g or t
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NAME/KEY: misc feature
LOCATION: (645001)..(660000)
OTHER INFORMATION: n=a or c or g or t
FEATURE:
NAME/KEY: misc feature
LOCATION: (660001)..(675000)
OTHER INFORMATION: n=a or c or g or t
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NAME/KEY: misc feature
LOCATION: (675001)..(690000)
OTHER INFORMATION: n=a or c or g or t
FEATURE:
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Query Match      100.0%; Score 20; DB 16; Length 1230025;
Best Local Similarity 100.0%; Pred. No. 0.016;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGAGGAAGCGCGAGTGAAC 20
      |||||
DB      1011866 GGAGGAAGCGCGAGTGAAC 1011885
```

```
RESULT 7
US-10-425-114-4575/c
; Sequence 4575, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 4575
; LENGTH: 2123
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700382382_FLI
US-10-425-114-4575
```

```
Query Match      90.0%; Score 18; DB 13; Length 2123;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGAGGAAGCGCGAGTGA 18
      |||||
-DB      305 GGAGGAAGCGCGAGTGA 288
```

```
RESULT 8
US-10-437-963-25445/c
; Sequence 25445, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 25445
; LENGTH: 2738
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_30330C.1
US-10-437-963-25445
```

```
Query Match      90.0%; Score 18; DB 17; Length 2738;
Best Local Similarity 100.0%; Pred. No. 0.59;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGAGGAAGCGCGAGTGA 18
      |||||
DB      614 GGAGGAAGCGCGAGTGA 597
```

```
RESULT 9
US-10-437-963-4673
; Sequence 4673, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 4673
; LENGTH: 1143
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_11535C.1
US-10-437-963-4673
```

```
Query Match      85.0%; Score 17; DB 17; Length 1143;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGAGGAAGCGCGAGTGA 17
      |||||
DB      816 GGAGGAAGCGCGAGTGA 832
```

RESULT 10

```
US-10-425-114-32946
; Sequence 32946, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 32946
; LENGTH: 1305
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-2MFLM017043F07_FLI
US-10-425-114-32946

Query Match      85.0%; Score 17; DB 13; Length 1305;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GAGGAAGCGGAGGATGA 18
DB 1122 GAGGAAGCGGAGGATGA 1138

RESULT 11
US-10-425-114-32781/c
; Sequence 32781, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 32781
; LENGTH: 2124
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-2MFLM017021D09_FLI
US-10-425-114-32781

Query Match      85.0%; Score 17; DB 13; Length 2124;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GAGGAAGCGGAGGATGA 18
DB 190 GAGGAAGCGGAGGATGA 174

RESULT 12
US-10-369-493-35514/c
; Sequence 35514, Application US/10369493
; Publication No. US2003023675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 35514
; LENGTH: 2145
; TYPE: DNA
; ORGANISM: Mesorhizobium loti
US-10-369-493-35514

Query Match      85.0%; Score 17; DB 16; Length 2145;
Best Local Similarity 100.0%; Pred. No. 2.2;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GAGGAAGCGGAGGATGA 18
DB 900 GAGGAAGCGGAGGATGA 884

RESULT 13
US-10-425-114-25403
; Sequence 25403, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 25403
; LENGTH: 338
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3898-009-B5_FLI
US-10-425-114-25403

Query Match      80.0%; Score 16; DB 13; Length 338;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 GAGGAAGCGGAGGATGACG 20
DB 237 GAGGAAGCGGAGGATGACG 252

RESULT 14
US-10-282-122A-17957
; Sequence 17957, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
```

APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 17957:
LENGTH: 1251
TYPE: DNA
ORGANISM: *Corynebacterium diptheriae*
US-10-282-122A-17957

Query Match 80.0%; Score 16; DB 13; Length 1251;
Best Local Similarity 100.0%; Pred. No. 8.7;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GAGGAAGCGGAGGATG 17
|||||
Db 403 GAGGAAGCGGAGGATG 418

RESULT 15
US-10-425-114-15476/c
Sequence 15476, Application US/10425114
Publication No. US20040034888A1
GENERAL INFORMATION:
APPLICANT: Liu, Jingdong
APPLICANT: Zhou, Yihua
APPLICANT: Kovalic, David K.
APPLICANT: Screen, Steven E.
APPLICANT: Tabaska, Jack E.
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53313)B
CURRENT APPLICATION NUMBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 15476
LENGTH: 1543
TYPE: DNA
ORGANISM: *Zea mays*
FEATURE:
OTHER INFORMATION: Clone ID: LIB3060-007-A11_FLI
US-10-425-114-15476

Query Match 80.0%; Score 16; DB 13; Length 1543;

Best Local Similarity 100.0%; Pred. No. 8.4;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 GAGGAAGCGGAGGATG 17
|||||
Db 330 GAGGAAGCGGAGGATG 315
Search completed: August 4, 2004, 11:56:24
Job time : 183.964 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 06:32:11 / Search time 1825.78 Seconds
(without alignments)
385.436 Million cell updates/sec

Title: US-09-940-860-2

Perfect score: 20

Sequence: 1 ggagggaaggcggatgacg 20

Scoring table: OLIGO_NUC

Gapop 60.0, Gapext 60.0

Searched: 37577330 seqs, 17593059518 residues

Word size: 0

Total number of hits satisfying chosen parameters: 75154660

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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- 39: /cgn2_6/ptodata/2/pna/US099C COMB.seq:*
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- 41: /cgn2_6/ptodata/2/pna/US099E COMB.seq:*
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- 49: /cgn2_6/ptodata/2/pna/US103A COMB.seq:*
- 50: /cgn2_6/ptodata/2/pna/US103B COMB.seq:*
- 51: /cgn2_6/ptodata/2/pna/US104A COMB.seq:*
- 52: /cgn2_6/ptodata/2/pna/US104B COMB.seq:*
- 53: /cgn2_6/ptodata/2/pna/US106 COMB.seq:*
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- 62: /cgn2_6/ptodata/2/pna/US6006 COMB.seq:*
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- 64: /cgn2_6/ptodata/2/pna/US6008 COMB.seq:*
- 65: /cgn2_6/ptodata/2/pna/US6009 COMB.seq:*
- 66: /cgn2_6/ptodata/2/pna/US6010 COMB.seq:*
- 67: /cgn2_6/ptodata/2/pna/US6011 COMB.seq:*
- 68: /cgn2_6/ptodata/2/pna/US6012 COMB.seq:*
- 69: /cgn2_6/ptodata/2/pna/US6013 COMB.seq:*
- 70: /cgn2_6/ptodata/2/pna/US6014 COMB.seq:*
- 71: /cgn2_6/ptodata/2/pna/US6015 COMB.seq:*
- 72: /cgn2_6/ptodata/2/pna/US6016 COMB.seq:*
- 73: /cgn2_6/ptodata/2/pna/US6017 COMB.seq:*
- 74: /cgn2_6/ptodata/2/pna/US6018 COMB.seq:*
- 75: /cgn2_6/ptodata/2/pna/US6019 COMB.seq:*
- 76: /cgn2_6/ptodata/2/pna/US6020 COMB.seq:*
- 77: /cgn2_6/ptodata/2/pna/US6021 COMB.seq:*
- 78: /cgn2_6/ptodata/2/pna/US6022 COMB.seq:*
- 79: /cgn2_6/ptodata/2/pna/US6023A COMB.seq:*
- 80: /cgn2_6/ptodata/2/pna/US6023B COMB.seq:*
- 81: /cgn2_6/ptodata/2/pna/US6024 COMB.seq:*
- 82: /cgn2_6/ptodata/2/pna/US6025 COMB.seq:*
- 83: /cgn2_6/ptodata/2/pna/US6026 COMB.seq:*
- 84: /cgn2_6/ptodata/2/pna/US6027 COMB.seq:*
- 85: /cgn2_6/ptodata/2/pna/US6028 COMB.seq:*
- 86: /cgn2_6/ptodata/2/pna/US6029 COMB.seq:*
- 87: /cgn2_6/ptodata/2/pna/US6030 COMB.seq:*
- 88: /cgn2_6/ptodata/2/pna/US6031 COMB.seq:*
- 89: /cgn2_6/ptodata/2/pna/US6032 COMB.seq:*
- 90: /cgn2_6/ptodata/2/pna/US6033 COMB.seq:*
- 91: /cgn2_6/ptodata/2/pna/US6034 COMB.seq:*
- 92: /cgn2_6/ptodata/2/pna/US6035 COMB.seq:*
- 93: /cgn2_6/ptodata/2/pna/US6036 COMB.seq:*
- 94: /cgn2_6/ptodata/2/pna/US6037 COMB.seq:*
- 95: /cgn2_6/ptodata/2/pna/US6038 COMB.seq:*
- 96: /cgn2_6/ptodata/2/pna/US6039 COMB.seq:*
- 97: /cgn2_6/ptodata/2/pna/US6040 COMB.seq:*
- 98: /cgn2_6/ptodata/2/pna/US6041 COMB.seq:*
- 99: /cgn2_6/ptodata/2/pna/US6042 COMB.seq:*
- 100: /cgn2_6/ptodata/2/pna/US6043 COMB.seq:*
- 101: /cgn2_6/ptodata/2/pna/US6044 COMB.seq:*
- 102: /cgn2_6/ptodata/2/pna/US6045 COMB.seq:*
- 103: /cgn2_6/ptodata/2/pna/US6046 COMB.seq:*
- 104: /cgn2_6/ptodata/2/pna/US6047 COMB.seq:*
- 105: /cgn2_6/ptodata/2/pna/US6048 COMB.seq:*
- 106: /cgn2_6/ptodata/2/pna/US6049 COMB.seq:*
- 107: /cgn2_6/ptodata/2/pna/US6050 COMB.seq:*
- 108: /cgn2_6/ptodata/2/pna/US6051 COMB.seq:*
- 109: /cgn2_6/ptodata/2/pna/US6052 COMB.seq:*
- 110: /cgn2_6/ptodata/2/pna/US6053 COMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

OTHER INFORMATION: synthetic amplification primer
US-09-940-860-2

Query Match 100.0%; Score 20; DB 39; Length 20;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAGCGGAGGATGACG 20
Db 1 GGAGGAGCGGAGGATGACG 20
RESULT 2
US-09-940-860-7
; Sequence 7, Application US/09940860
; GENERAL INFORMATION:
; APPLICANT: Rothman, Richard
; APPLICANT: Majumdar, Maulik
; TITLE OF INVENTION: MOLECULAR DIAGNOSIS OF BACTEREMIA
; FILE REFERENCE: 01107.00185
; CURRENT APPLICATION NUMBER: US/09/940,860
; CURRENT FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/229,376
; PRIOR FILING DATE: 2000-08-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 30
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic amplification primer
US-09-940-860-7

Query Match 100.0%; Score 20; DB 39; Length 30;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAGCGGAGGATGACG 20
Db 3 GGAGGAGCGGAGGATGACG 22
RESULT 3
US-10-719-633-11
; Sequence 11, Application US/10719633
; GENERAL INFORMATION:
; APPLICANT: Iversen, Patrick L.
; TITLE OF INVENTION: Antisense Antibacterial Method and
; TITLE OF INVENTION: Composition
; FILE REFERENCE: 0450-0032.30
; CURRENT APPLICATION NUMBER: US/10/719,633
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US/09/726,774
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: US 60/168,150
; PRIOR FILING DATE: 1999-11-29
; NUMBER OF SEQ ID NOS: 139
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1548
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
US-10-719-633-11

Query Match 100.0%; Score 20; DB 54; Length 1548;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAGCGGAGGATGACG 20
Db 1179 GGAGGAGCGGAGGATGACG 1198

OTHER INFORMATION: synthetic amplification primer
US-09-940-860-2

Query Match 100.0%; Score 20; DB 39; Length 20;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAGCGGAGGATGACG 20
Db 1 GGAGGAGCGGAGGATGACG 20
RESULT 2
US-09-940-860-7
; Sequence 7, Application US/09940860
; GENERAL INFORMATION:
; APPLICANT: Rothman, Richard
; APPLICANT: Majumdar, Maulik
; TITLE OF INVENTION: MOLECULAR DIAGNOSIS OF BACTEREMIA
; FILE REFERENCE: 01107.00185
; CURRENT APPLICATION NUMBER: US/09/940,860
; CURRENT FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/229,376
; PRIOR FILING DATE: 2000-08-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 30
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic amplification primer
US-09-940-860-7

Query Match 100.0%; Score 20; DB 39; Length 30;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAGCGGAGGATGACG 20
Db 3 GGAGGAGCGGAGGATGACG 22
RESULT 3
US-10-719-633-11
; Sequence 11, Application US/10719633
; GENERAL INFORMATION:
; APPLICANT: Iversen, Patrick L.
; TITLE OF INVENTION: Antisense Antibacterial Method and
; TITLE OF INVENTION: Composition
; FILE REFERENCE: 0450-0032.30
; CURRENT APPLICATION NUMBER: US/10/719,633
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US/09/726,774
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: US 60/168,150
; PRIOR FILING DATE: 1999-11-29
; NUMBER OF SEQ ID NOS: 139
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1548
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
US-10-719-633-11

Query Match 100.0%; Score 20; DB 54; Length 1548;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAGCGGAGGATGACG 20
Db 1179 GGAGGAGCGGAGGATGACG 1198

RESULT 4

US-09-940-860-5
; Sequence 5, Application US/09940860
; GENERAL INFORMATION:
; APPLICANT: Rothman, Richard
; TITLE OF INVENTION: MOLECULAR DIAGNOSIS OF BACTEREMIA
; FILE REFERENCE: 01107.00185
; CURRENT APPLICATION NUMBER: US/09/940,860
; CURRENT FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/229,376
; PRIOR FILING DATE: 2000-08-31
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1550
; TYPE: DNA
; ORGANISM: Chlamydia trichomatis
US-09-940-860-5

Query Match 100.0%; Score 20; DB 39; Length 1550;
Best Local Similarity 100.0%; Pred. No. 1.6; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0

QY 1 GGAGGAAGCGGAGGATGACG 20
|||||
Db 1179 GGAGGAAGCGGAGGATGACG 1198

RESULT 5

US-09-201-228A-1/c
; Sequence 1, Application US/09201228A
; GENERAL INFORMATION:
; APPLICANT: Griffais, Remy
; APPLICANT: Hoiseth, Susan K.
; APPLICANT: Zagursky, Robert John
; APPLICANT: Metcalf, Benjamin J.
; APPLICANT: Peek, Joel A.
; APPLICANT: Sankaran, Banumathi
; APPLICANT: Fletcher, Leah Diane
; TITLE OF INVENTION: CHLAMYDIA TRACHOMATIS GENOMIC SEQUENCE
; TITLE OF INVENTION: AND POLYPEPTIDES, FRAGMENTS THEREOF AND USES THEREOF, IN
; TITLE OF INVENTION: PARTICULAR FOR THE DIAGNOSIS, PREVENTION AND TREATMENT OF
; FILE REFERENCE: 9710-0004-999
; CURRENT APPLICATION NUMBER: US/09/201,228A
; CURRENT FILING DATE: 1998-11-30
; PRIOR APPLICATION NUMBER: US 60/107,077
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: FR 97-16034
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: FR 97-15041
; PRIOR FILING DATE: 1997-11-28
; NUMBER OF SEQ ID NOS: 5981
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1038608
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(1038608)
; OTHER INFORMATION: n = A,T,C or G
US-09-201-228A-1

Query Match 100.0%; Score 20; DB 16; Length 1038608;
Best Local Similarity 100.0%; Pred. No. 1.2; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0

QY 1 GGAGGAAGCGGAGGATGACG 20
|||||
Db 635877 GGAGGAAGCGGAGGATGACG 635858

RESULT 6

US-10-289-762-1
; Sequence 1, Application US/10289762
; GENERAL INFORMATION:
; APPLICANT: Griffais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragment
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prev
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/10/289,762
; CURRENT FILING DATE: 2003-03-27
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1
; LENGTH: 1230025
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(15000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (15001)...(30000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (30001)...(45000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (45001)...(60000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (60001)...(75000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (75001)...(90000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (90001)...(105000)
; OTHER INFORMATION: n=a or c or g or t
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; LOCATION: (105001)...(120000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (120001)...(135000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (135001)...(150000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (150001)...(165000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (165001)...(180000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (180001)...(195000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (195001)...(210000)

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; FEATURE:
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; LOCATION: (210001)..(225000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (225001)..(240000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (240001)..(255000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (255001)..(270000)
; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (270001)..(285000)
; OTHER INFORMATION: n=a or c or g or t
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; OTHER INFORMATION: n=a or c or g or t
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; NAME/KEY: misc_feature
; LOCATION: (315001)..(330000)
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; NAME/KEY: misc_feature
; LOCATION: (330001)..(345000)
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; LOCATION: (420001)..(435000)
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; NAME/KEY: misc_feature
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; NAME/KEY: misc_feature
; LOCATION: (450001)..(465000)
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; LOCATION: (465001)..(480000)
; OTHER INFORMATION: n=a or c or g or t

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; OTHER INFORMATION: n=a or c or g or t
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; NAME/KEY: misc_feature
; LOCATION: (510001)..(525000)
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; NAME/KEY: misc_feature
; LOCATION: (525001)..(540000)
; OTHER INFORMATION: n=a or c or g or t
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; NAME/KEY: misc_feature
; LOCATION: (540001)..(555000)
; OTHER INFORMATION: n=a or c or g or t
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; LOCATION: (555001)..(570000)
; OTHER INFORMATION: n=a or c or g or t
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; NAME/KEY: misc_feature
; LOCATION: (570001)..(585000)
; OTHER INFORMATION: n=a or c or g or t
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; NAME/KEY: misc_feature
; LOCATION: (585001)..(600000)
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; NAME/KEY: misc_feature
; LOCATION: (600001)..(615000)
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; NAME/KEY: misc_feature
; LOCATION: (615001)..(630000)
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; LOCATION: (645001)..(660000)
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; OTHER INFORMATION: n=a or c or g or t
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; OTHER INFORMATION: n=a or c or g or t
; FEATURE:
; NAME/KEY: misc_feature

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Query Match 100.0%; Score 20; DB 48; Length 1230025;
 Best Local Similarity 100.0%; Pred. No. 1.2;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GGAGGAAGCGGAGGATGACG 20
 Db 1011866 GGAGGAAGCGGAGGATGACG 1011885

RESULT 7
 US-09-438-185-1
 ; Sequence 1, Application US/09438185
 ; GENERAL INFORMATION:
 ; APPLICANT: Stephens, Richard

```
; APPLICANT: Mitchell, Wayne
; APPLICANT: Kalmann, Sue
; APPLICANT: Davis, Ronald
; TITLE OF INVENTION: The Regents of the University of California
; FILE REFERENCE: 018941-000411US
; CURRENT APPLICATION NUMBER: US/09/438,185
; CURRENT FILING DATE: 1999-11-11
; PRIOR APPLICATION NUMBER: US 60/108,279
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: US 60/128,606
; PRIOR FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 1074
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1230230
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
; US-09-438-185-1

Query Match          100.0%; Score 20; DB 20; Length 1230230;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGCGGAGGATGACG 20
DB 1001741 GGAGGAAGCGGAGGATGACG 1001760

RESULT 8
US-09-438-185A-1
; Sequence 1, Application US/09438185A
; GENERAL INFORMATION:
; APPLICANT: Stephens, Richard
; APPLICANT: Mitchell, Wayne
; APPLICANT: Kalmann, Sue
; APPLICANT: Davis, Ronald
; TITLE OF INVENTION: The Regents of the University of California
; FILE REFERENCE: 018941-000411US
; CURRENT APPLICATION NUMBER: US/09/438,185A
; CURRENT FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: US 60/108,279
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: US 60/128,606
; PRIOR FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 1074
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1230230
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
; US-09-438-185A-1

Query Match          100.0%; Score 20; DB 20; Length 1230230;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGCGGAGGATGACG 20
DB 1001741 GGAGGAAGCGGAGGATGACG 1001760

RESULT 9
US-10-219-999-18302/c
; Sequence 18302, Application US/10219999
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Edgerton, Michael D
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; APPLICANT: Stein, Joshua
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; TITLE OF INVENTION: cDNA SEQUENCES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-10/52726/C
; CURRENT APPLICATION NUMBER: US/10/219,999
; CURRENT FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: US 60/324,109
; PRIOR FILING DATE: 2001-09-21
; CURRENT APPLICATION NUMBER: US 60/312,544
; PRIOR FILING DATE: 2001-08-15
; NUMBER OF SEQ ID NOS: 63520
; SEQ ID NO 18302
; LENGTH: 2123
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (161)..(1768)
; OTHER INFORMATION:
; US-10-219-999-18302

Query Match          90.0%; Score 18; DB 47; Length 2123;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGCGGAGGATGA 18
DB 305 GGAGGAAGCGGAGGATGA 288

RESULT 10
US-10-425-114-4575/c
; Sequence 4575, Application US/10425114
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21/53313/B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 4575
; LENGTH: 2123
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700382382_FLI
; US-10-425-114-4575

Query Match          90.0%; Score 18; DB 51; Length 2123;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGCGGAGGATGA 18
DB 305 GGAGGAAGCGGAGGATGA 288

RESULT 11
US-10-425-114A-4575/c
; Sequence 4575, Application US/10425114A
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
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; FILE REFERENCE: 38-21(53213)B
; CURRENT APPLICATION NUMBER: US/10/425,114A
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 4575
; LENGTH: 2123
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700382382_FLI
US-10-425-114A-4575

Query Match
Best Local Similarity 90.0%; Score 18; DB 51; Length 2123;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGGCGAGGATGA 18
Db 305 GGAGGAAGGCGAGGATGA 288

RESULT 12
US-10-437-963-25445/c
; Sequence 25445, Application US/10437963
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 25445
; LENGTH: 2738
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_30330C.1
US-10-437-963-25445

Query Match
Best Local Similarity 90.0%; Score 18; DB 51; Length 2738;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGGCGAGGATGA 18
Db 614 GGAGGAAGGCGAGGATGA 597

RESULT 13
US-09-702-134-21825/c
; Sequence 21825, Application US/09702134
; GENERAL INFORMATION:
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Cao, Yongwei
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; APPLICANT: McIninch, James
; APPLICANT: Wu, Wei
; TITLE OF INVENTION: Plant Genome Sequence and Uses Thereof
; FILE REFERENCE: 38-21(51237)F
; CURRENT APPLICATION NUMBER: US/09/702,134
; CURRENT FILING DATE: 2000-10-31
; NUMBER OF SEQ ID NOS: 52202
; SEQ ID NO 21825
; LENGTH: 13218
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; TYPE: DNA
; ORGANISM: Oryza sativa
US-09-702-134-21825

Query Match
Best Local Similarity 90.0%; Score 18; DB 30; Length 13218;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGGCGAGGATGA 18
Db 103 GGAGGAAGGCGAGGATGA 86

RESULT 14
US-09-815-264-71774/c
; Sequence 71774, Application US/09815264
; GENERAL INFORMATION:
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Cao, Yongwei
; APPLICANT: Dotson, Stanton B.
; APPLICANT: Koshi, Jeffrey M.
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; APPLICANT: McIninch, James
; APPLICANT: Wu, Wei
; TITLE OF INVENTION: Genomic Plant Sequences And Uses Thereof
; FILE REFERENCE: 38-21(51237)G
; CURRENT APPLICATION NUMBER: US/09/815,264
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 09/620,392
; PRIOR FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: US 09/702,134
; PRIOR FILING DATE: 2000-10-31
; NUMBER OF SEQ ID NOS: 109669
; SEQ ID NO 71774
; LENGTH: 13218
; TYPE: DNA
; ORGANISM: Oryza sativa
US-09-815-264-71774

Query Match
Best Local Similarity 90.0%; Score 18; DB 33; Length 13218;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGGAAGGCGAGGATGA 18
Db 103 GGAGGAAGGCGAGGATGA 86

RESULT 15
US-09-620-392-33867/c
; Sequence 33867, Application US/09620392
; GENERAL INFORMATION:
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; APPLICANT: McIninch, James
; TITLE OF INVENTION: Plant Genome Sequence And Uses Thereof
; FILE REFERENCE: 38-21(51237)E
; CURRENT APPLICATION NUMBER: US/09/620,392
; CURRENT FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 69652
; SEQ ID NO 33867
; LENGTH: 13263
; TYPE: DNA
; ORGANISM: Oryza sativa
; OTHER INFORMATION: unsure at all n locations
US-09-620-392-33867

Query Match
Best Local Similarity 90.0%; Score 18; DB 26; Length 13263;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 GGAGGAGGCGGAGGATGA 18
Db 103 GGAGGAGGCGGAGGATGA 86

Search completed: August 4, 2004, 11:29:54
Job time : 1831.78 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 04:03:11 ; Search time 963.229 Seconds
(without alignments)
989.948 Million cell updates/sec

Title: US-09-940-860-3

Perfect score: 22

Sequence: 1 acaagcccgagagatttca 22

Scoring table: OLIGO NUC

Gapop_60.0 , Gapext 60.0

Searched: 3470272 seqs, 21671516995 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : GenEmbl.*

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2: gb.htg.*
3: gb.in.*
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5: gb.ov.*
6: gb.pat.*
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8: gb.pl.*
9: gb.pr.*
10: gb.ro.*
11: gb.sts.*
12: gb.sy.*
13: gb.un.*
14: gb.vi.*
15: em.ba.*
16: em.fun.*
17: em.hum.*
18: em.in.*
19: em.mu.*
20: em.om.*
21: em.or.*
22: em.ov.*
23: em.pat.*
24: em.ph.*
25: em.pl.*
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38: em.sy.*
39: em.htgo.hum.*
40: em.htgo.mus.*
41: em.htgo.other.*

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Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
C 1	22	100.0	236	1	AF294958	AF294958 Unculture
C 2	22	100.0	260	1	AF389905	AF389905 Unculture
C 3	22	100.0	302	1	AY391637	AY391637 Unculture
C 4	22	100.0	302	1	AY391643	AY391643 Unculture
C 5	22	100.0	309	1	AY391670	AY391670 Unculture
C 6	22	100.0	368	6	AR071569	AR071569 Sequence
C 7	22	100.0	370	6	AR071568	AR071568 Sequence
C 8	22	100.0	372	1	AF257294	AF257294 Unculture
C 9	22	100.0	380	13	U01241780	U01241780 Unidentif
C 10	22	100.0	420	3	AF535201	AF535201 Unculture
C 11	22	100.0	431	1	AF226208	AF226208 Unculture
C 12	22	100.0	432	1	AY191889	AY191889 Unculture
C 13	22	100.0	458	1	AB041277	AB041277 Unculture
C 14	22	100.0	473	1	AF385928	AF385928 Mobiluncu
C 15	22	100.0	497	1	AF289914	AF289914 Unculture
C 16	22	100.0	498	6	AR071534	AR071534 Sequence
C 17	22	100.0	499	1	AXXRG16SC	LO9057 Unknown ana
C 18	22	100.0	500	3	AY038517	AY038517 Unculture
C 19	22	100.0	510	1	AB075168	AB075168 Unculture
C 20	22	100.0	519	1	AY261423	AY261423 Unculture
C 21	22	100.0	527	1	AY090655	AY090655 Unculture
C 22	22	100.0	550	1	AF449786	AF449786 Unculture
C 23	22	100.0	562	1	AF027037	AF027037 Unidentif
C 24	22	100.0	584	13	U01241721	U01241721 Unidentif
C 25	22	100.0	600	1	AF332350	AF332350 Unculture
C 26	22	100.0	600	1	AF429144	AF429144 Unculture
C 27	22	100.0	600	1	AF429158	AF429158 Unculture
C 28	22	100.0	600	1	AF429234	AF429234 Unculture
C 29	22	100.0	604	1	AY012520S2	AY012521 Unculture
C 30	22	100.0	626	1	AF027077	AF027077 Unidentif
C 31	22	100.0	633	1	AY235614	AY235614 Unculture
C 32	22	100.0	645	1	AF320943S2	AF320944 Unculture
C 33	22	100.0	655	1	AY217417	AY217417 Unculture
C 34	22	100.0	673	1	AF320967S2	AF320968 Unculture
C 35	22	100.0	681	1	AY235670	AY235670 Unculture
C 36	22	100.0	695	1	AY100537	AY100537 Unculture
C 37	22	100.0	695	1	AF422641	AF422641 Unculture
C 38	22	100.0	695	1	AF424241	AF424241 Unculture
C 39	22	100.0	699	1	AF422682	AF422682 Unculture
C 40	22	100.0	719	1	UB294006	Z94006 Unidentifie
C 41	22	100.0	739	1	AY133110	AY133110 Unculture
C 42	22	100.0	760	1	AF424258	AF424258 Unculture
C 43	22	100.0	760	1	AY239544	AY239544 Unculture
C 44	22	100.0	762	1	AF422623	AF422623 Unculture
C 45	22	100.0	781	1	AY239537	AY239537 Unculture

ALIGNMENTS

RESULT 1
AF294958/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE

AF294958 236 bp DNA linear BCT 10-JAN-2002
Uncultured eubacterium OTU1 16S ribosomal RNA gene, partial
sequence.
AF294958
AF294958.1 GI:15419629
uncultured eubacterium
Bacteria; environmental
1 (bases 1 to 236)
Cutter, L.A., Watts, J.E., Sowers, K.R. and May, H.D.
Identification of a microorganism that links its growth to the
reductive dechlorination of 2,3,5,6-chlorobiphenyl

```

JOURNAL      Environ. Microbiol. 3 (11), 699-709 (2001)
MEDLINE      21835716
PUBMED       11846760
REFERENCE    2 (bases 1 to 236)
AUTHORS      Cutter, L.A., Watts, J.E.M., Sowers, K.R. and May, H.D.
TITLE        Indications for acetate as the carbon source and electron donor in
              anaerobic ortho PCB dechlorination
JOURNAL      Unpublished
REFERENCE    3 (bases 1 to 236)
AUTHORS      Watts, J.E.M., Cutter, L.A., Sowers, K.R. and May, H.D.
TITLE        Direct Submission
JOURNAL      Submitted (11-AUG-2000) Center of Marine Biotechnology, 701 E.
              Pratt St., Baltimore, MD 21202, USA
FEATURES     source
              location/Qualifiers
              1. .236
              /organism="uncultured eubacterium"
              /mol_type="genomic DNA"
              /db_xref="taxon:73429"
              /note="OTU 1; PCB dechlorinating culture"
              <1. .>236
              /product="16S ribosomal RNA"

rRNA

ORIGIN
Query Match      100.0%; Score 22; DB 1; Length 236;
Best Local Similarity 100.0%; Pred. No. 4.4;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCGAGAACGTATTCA 22
Db 207 ACAAGGCCGAGAACGTATTCA 186

RESULT 2
AF389905/c
LOCUS      AF389905      260 bp      DNA      linear      BCT 10-FEB-2002
DEFINITION      Uncultured green sulfur bacterium clone OTU 1 16S ribosomal RNA
gene, partial sequence.
ACCESSION      AF389905
VERSION        AF389905.1 GI:18643063
KEYWORDS       uncultured Chlorobi bacterium
SOURCE         uncultured Chlorobi bacterium
ORGANISM       Bacteria; Chlorobi; environmental samples.
REFERENCE      1 (bases 1 to 260)
AUTHORS        Wu, Q., Watts, J.E., Sowers, K.R. and May, H.D.
TITLE          Identification of a bacterium that specifically catalyzes the
              reductive dechlorination of polychlorinated biphenyls with doubly
              flanked chlorines
JOURNAL        Appl. Environ. Microbiol. 68 (2), 807-812 (2002)
MEDLINE        21681065
PUBMED         11823222
REFERENCE      2 (bases 1 to 260)
AUTHORS        Watts, J.E.M., Wu, Q., May, H.D. and Sowers, K.R.
TITLE          Direct Submission
JOURNAL        Submitted (11-JUN-2001) Center of Marine Biotechnology, University
              of Maryland Biotechnology Institute, Columbus Center, 701 E. Pratt
              St., Baltimore, MD 21202, USA
FEATURES       source
              1. .260
              /organism="uncultured Chlorobi bacterium"
              /mol_type="genomic DNA"
              /db_xref="taxon:156405"
              /clone="OTU 1"
              /note="DNA sequence from PCB-dechlorinating enrichment
              culture"
              <1. .>260
              /product="16S ribosomal RNA"

rRNA

ORIGIN
Query Match      100.0%; Score 22; DB 1; Length 260;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ACAAGGCCGAGAACGTATTCA 22
Db 207 ACAAGGCCGAGAACGTATTCA 186

RESULT 3
AY391637/c
LOCUS      AY391637      302 bp      DNA      linear      BCT 15-OCT-2003
DEFINITION      Uncultured soil bacterium clone M21 16S ribosomal RNA gene, partial
              sequence.
ACCESSION      AY391637
VERSION        AY391637.1 GI:37624038
KEYWORDS       uncultured soil bacterium
SOURCE         uncultured soil bacterium
ORGANISM       Bacteria; environmental samples.
REFERENCE      1 (bases 1 to 302)
AUTHORS        Sun, H., Deng, S. and Raun, W.R.
TITLE          Microbiology community structure and diversity in a century-long
              manure-treated agroecosystem
JOURNAL        Unpublished
REFERENCE      2 (bases 1 to 302)
AUTHORS        Sun, H., Deng, S. and Raun, W.R.
TITLE          Direct Submission
JOURNAL        Submitted (16-SEP-2003) Plant and Soil Sciences, Oklahoma State
              University, 368 Ag Hall, Stillwater, OK 74078, USA
FEATURES       source
              1. .302
              /organism="uncultured soil bacterium"
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              /isolation_source="total microbial community of
              century-long manure-treated soil"
              /db_xref="taxon:164851"
              /clone="M21"
              /environmental_sample
              <1. .>302
              /product="16S ribosomal RNA"

rRNA

ORIGIN
Query Match      100.0%; Score 22; DB 1; Length 302;
Best Local Similarity 100.0%; Pred. No. 4.1;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCGAGAACGTATTCA 22
Db 289 ACAAGGCCGAGAACGTATTCA 268

RESULT 4
AY391643/c
LOCUS      AY391643      302 bp      DNA      linear      BCT 15-OCT-2003
DEFINITION      Uncultured soil bacterium clone M27 16S ribosomal RNA gene, partial
              sequence.
ACCESSION      AY391643
VERSION        AY391643.1 GI:37624044
KEYWORDS       uncultured soil bacterium
SOURCE         uncultured soil bacterium
ORGANISM       Bacteria; environmental samples.
REFERENCE      1 (bases 1 to 302)
AUTHORS        Sun, H., Deng, S. and Raun, W.R.
TITLE          Microbiology community structure and diversity in a century-long
              manure-treated agroecosystem
JOURNAL        Unpublished
REFERENCE      2 (bases 1 to 302)
AUTHORS        Sun, H., Deng, S. and Raun, W.R.
TITLE          Direct Submission
JOURNAL        Submitted (16-SEP-2003) Plant and Soil Sciences, Oklahoma State
              University, 368 Ag Hall, Stillwater, OK 74078, USA
FEATURES       source
              1. .302
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              /mol_type="genomic DNA"

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/isolation_source="total microbial community of
century-long manure-treated soil"
/db_xref="taxon:164851"
/clone="M27"
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<1..>302
/product="16S ribosomal RNA"

ORIGIN
Query Match      100.0%; Score 22; DB 1; Length 302;
Best Local Similarity 100.0%; Pred. No. 4.1;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACAAGGCCCGAGAACGTAATCA 22
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Db      289 ACAAGGCCCGAGAACGTAATCA 269

RESULT 5
AY391670/c
LOCUS      AY391670          309 bp      DNA      linear      BCT 15-OCT-2003
DEFINITION      Uncultured soil bacterium clone M54 16S ribosomal RNA gene, partial
sequence.
ACCESSION      AY391670
VERSION      AY391670.1 GI:37624071
SOURCE      uncultured soil bacterium
ORGANISM      Bacteria; environmental samples.
REFERENCE      1 (bases 1 to 309)
AUTHORS      Sun, H., Deng, S. and Raun, W.R.
TITLE      Microbiology community structure and diversity in a century-long
manure-treated agroecosystem
JOURNAL      Unpublished
REFERENCE      2 (bases 1 to 309)
AUTHORS      Sun, H., Deng, S. and Raun, W.R.
TITLE      Direct Submission
JOURNAL      Submitted (16-SEP-2003) Plant and Soil Sciences, Oklahoma State
University, 368 Ag Hall, Stillwater, OK 74078, USA
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source      1..309
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            century-long manure-treated soil"
            /db_xref="taxon:164851"
            /clone="M54"
            /environmental_sample
            <1..>309
            /product="16S ribosomal RNA"

rRNA

ORIGIN
Query Match      100.0%; Score 22; DB 1; Length 309;
Best Local Similarity 100.0%; Pred. No. 4.1;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACAAGGCCCGAGAACGTAATCA 22
      |||
Db      296 ACAAGGCCCGAGAACGTAATCA 275

RESULT 6
AR071569/c
LOCUS      AR071569          368 bp      DNA      linear      PAT 18-FEB-2000
DEFINITION      Sequence 36 from patent US 5912117.
ACCESSION      AR071569
VERSION      AR071569.1 GI:7222457
KEYWORDS
SOURCE      Unknown.
ORGANISM      Unclassified.
REFERENCE      1 (bases 1 to 368)
AUTHORS      Dodge, D.E. and White, T.J.

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TITLE      Method for diagnosis of Lyme disease
JOURNAL      Patent: US 5912117-A 35 15-JUN-1999;
FEATURES
source      1..368
            /organism="unknown"
            /mol_type="unassigned DNA"

ORIGIN
Query Match      100.0%; Score 22; DB 6; Length 368;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACAAGGCCCGAGAACGTAATCA 22
      |||
Db      273 ACAAGGCCCGAGAACGTAATCA 252

RESULT 7
AR071568/c
LOCUS      AR071568          370 bp      DNA      linear      PAT 18-FEB-2000
DEFINITION      Sequence 35 from patent US 5912117.
ACCESSION      AR071568
VERSION      AR071568.1 GI:7222456
KEYWORDS
SOURCE      Unknown.
ORGANISM      Unclassified.
REFERENCE      1 (bases 1 to 370)
AUTHORS      Dodge, D.E. and White, T.J.
TITLE      Method for diagnosis of Lyme disease
JOURNAL      Patent: US 5912117-A 35 15-JUN-1999;
FEATURES
source      1..370
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            /mol_type="unassigned DNA"

ORIGIN
Query Match      100.0%; Score 22; DB 6; Length 370;
Best Local Similarity 100.0%; Pred. No. 3.9;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ACAAGGCCCGAGAACGTAATCA 22
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Db      275 ACAAGGCCCGAGAACGTAATCA 254

RESULT 8
AF257294/c
LOCUS      AF257294          372 bp      DNA      linear      BCT 09-JUL-2001
DEFINITION      Uncultured marine gamma proteobacterium DHB-31 16S ribosomal RNA
gene, partial sequence.
ACCESSION      AF257294
VERSION      AF257294.1 GI:14317937
KEYWORDS
SOURCE      uncultured marine gamma proteobacterium DHB-31
ORGANISM      Bacteria; Proteobacteria; Gammaproteobacteria; environmental
samples.
REFERENCE      1 (bases 1 to 372)
AUTHORS      Lopez-Garcia, P., Lopez-Lopez, A., Moreira, D. and Rodriguez-Valera, F.
TITLE      Diversity of free-living prokaryotes from a deep-sea site at the
Antarctic Polar Front
JOURNAL      FEMS Microbiol. Ecol. 36 (2-3), 193-202 (2001)
PUBMED      11451524
REFERENCE      2 (bases 1 to 372)
AUTHORS      Lopez-Garcia, P., Lopez-Lopez, A., Moreira, D. and Rodriguez-Valera, F.
TITLE      Direct Submission
JOURNAL      Submitted (18-APR-2000) Microbiology, University Miguel Hernandez,
Facultad de Medicina, Campus de San Juan, San Juan, Alicante 03550,
Spain
FEATURES
source      1..372
            /organism="uncultured marine gamma proteobacterium DHB-31"

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RESULT 12
AY191889/c
LOCUS
DEFINITION
Uncultured bacterium clone BG6 16S ribosomal RNA gene, partial
sequence.
ACCESSION
AY191889
VERSION
AY191889.1 GI:28396218
KEYWORDS
SOURCE
uncultured bacterium
ORGANISM
Bacteria; environmental samples.
REFERENCE
1 (bases 1 to 432)
Macur,R.E., Langner,H.W. and Inskeep,W.P.
Molecular analysis of microbial communities in
acid-sulfate-chloride-arsenic geothermal springs in Yellowstone
National Park
JOURNAL
Unpublished
AUTHORS
2 (bases 1 to 432)
Macur,R.E., Langner,H.W. and Inskeep,W.P.
Direct Submission
TITLE
Submitted (06-DEC-2002) Land Resources and Environmental Sciences,
Montana State University - Bozeman, Leon Johnson Hall, Bozeman, MT
59717, USA
FEATURES
Location/Qualifiers
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/mol_type="genomic DNA"
/isolation_source="acid-sulfate-chloride-arsenic
geothermal spring"
/db_xref="taxon:77133"
/clone="BG6"
/environmental_sample
/country="USA; Wyoming, Yellowstone National Park"
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/product="16S ribosomal RNA"

rRNA

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Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGAACGTATTCA 22
|||||
DB 419 ACAAGGCCCGAGAACGTATTCA 398

RESULT 13
AB041277/c
LOCUS
DEFINITION
Uncultured bacterium ECS7 gene for 16S ribosomal RNA, partial
sequence.
ACCESSION
AB041277.1 GI:10716064
VERSION
AB041277.1
KEYWORDS
uncultured bacterium ECS7
SOURCE
uncultured bacterium ECS7
ORGANISM
Bacteria; environmental samples.
REFERENCE
1
AUTHORS
Sekiguchi,H., Koshikawa,H., Hiroki,M., Murakami,S., Xu,K.,
Watanabe,M., Nakahara,I., Zhu,M. and Uchiyama,H.
Bacterial distribution and phylogenetic diversity in the Changjiang
estuary before the construction of the Three Gorges Dam
JOURNAL
Microb. Ecol. 43 (1), 82-91 (2002)
MEDLINE
22088774
PUBMED
11984631
REFERENCE
2 (bases 1 to 458)
Sekiguchi,H. and Uchiyama,H.
Direct Submission
AUTHORS
Submitted (05-APR-2000) Hiroyuki Sekiguchi, National Institute for
Environmental Studies, Water Environment Quality; Onogawa16-2,
Tsukuba, Ibaraki 305-0053, Japan (E-mail:seki@nies.go.jp,
Tel:81-298-50-2412, Fax:81-298-50-2576)

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FEATURES
source
Location/Qualifiers
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/organism="uncultured bacterium ECS7"
/mol_type="genomic DNA"
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/clone="ECS7"
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/product="16S ribosomal RNA"

rRNA

ORIGIN
Query Match 100.0%; Score 22; DB 1; Length 458;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGAACGTATTCA 22
|||||
DB 360 ACAAGGCCCGAGAACGTATTCA 339

RESULT 14
AF385928/c
LOCUS
DEFINITION
Mobiluncus mulieris 16S-23S ribosomal RNA intergenic spacer,
partial sequence.
ACCESSION
AF385928
VERSION
AF385928.1 GI:27462290
KEYWORDS
Mobiluncus mulieris
ORGANISM
Mobiluncus mulieris
Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
Actinomycineae; Actinomycetaceae; Mobiluncus.
REFERENCE
1 (bases 1 to 473)
Park,H., Kim,C., Choi,H., Jang,H. and Kim,H.
AUTHORS
Mobiluncus curtisii DNA for 16S-23S rRNA internal transcribed
spacer
JOURNAL
Unpublished
REFERENCE
2 (bases 1 to 473)
Park,H., Kim,C., Choi,H., Jang,H. and Kim,H.
Direct Submission
TITLE
Submitted (25-MAY-2001) SJ Hightech Co., Ltd., College of Medicine,
Pusan National University, 10 Amidong-1-Ga, Seogu, Pusan 602-739,
Korea
FEATURES
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Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACAAGGCCCGAGAACGTATTCA 22
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DB 33 ACAAGGCCCGAGAACGTATTCA 12

RESULT 15
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LOCUS
DEFINITION
Uncultured green nonsulfur bacterium Kmlps6-20 16S ribosomal RNA
gene, partial sequence.
ACCESSION
AF289914
VERSION
AF289914.1 GI:9937457
KEYWORDS
uncultured green non-sulfur bacterium Kmlps6-20
SOURCE
uncultured green non-sulfur bacterium Kmlps6-20
ORGANISM
Bacteria; Chloroflexi; environmental samples.

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REFERENCE 1 (bases 1 to 488)
 AUTHORS Yu, Z. and Mohn, W. W.
 TITLE Bacterial diversity and community structure in an aerated lagoon
 revealed by ribosomal intergenic spacer analyses and 16S ribosomal
 DNA sequencing. Microbiol. 67 (4), 1565-1574 (2001)
 JOURNAL Appl. Environ. Microbiol.
 MEDLINE 21178505
 PUBMED 11282606

REFERENCE 2 (bases 1 to 497)
 AUTHORS Yu, Z. and Mohn, W. W.
 TITLE Direct Submission
 JOURNAL Submitted (26-JUL-2000) Microbiology and Immunology, University of
 British Columbia, #300-6174 University Blvd., Vancouver, BC V6T
 123, Canada

FEATURES
 source Location/Qualifiers
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 Job time : 965.229 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 04:03:11 ; Search time 875.663 Seconds
(without alignments)
989.948 Million cell updates/sec

Title: US-09-940-860-2

Perfect score: 20

Sequence: 1 ggaggagcgaggatgacg 20

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 3470272 seqs, 21671516995 residues

Word size: 0

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

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Post-processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	20	100.0	570	1	AB018671	AB018671 Endosymbi
2	20	100.0	601	1	AF507717	AF507717 Unculture
3	20	100.0	617	1	AY369151	AY369151 Unculture
4	20	100.0	827	1	AF317470	AF317470 Candidatu
5	20	100.0	857	1	AY220719	AY220719 Unculture
6	20	100.0	902	1	UBA309645	UBA309645 Unculture
7	20	100.0	910	1	UBA309647	UBA309647 Unculture
8	20	100.0	911	1	UBA309611	UBA309611 Unculture
9	20	100.0	936	1	AF050608	AF050608 Unculture
10	20	100.0	1247	1	UBA519648	UBA519648 Unculture
11	20	100.0	1255	1	AF524023	AF524023 Unculture
12	20	100.0	1298	1	APBRGDC	L35460 Alpha prote
13	20	100.0	1313	1	AB088955	AB088955 Unculture
14	20	100.0	1318	1	AF229791	AF229791 Unculture
15	20	100.0	1335	1	AF127027	AF127027 Helicobac
16	20	100.0	1354	1	CPU73782	U73782 Chlamydia p
17	20	100.0	1354	1	CPU73785	U73785 Chlamydia p
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19	20	100.0	1383	1	AY126640	AY126640 Endosymbi
20	20	100.0	1433	1	AY328728	AY328728 Unculture
21	20	100.0	1445	1	AF382129	AF382129 Unculture
22	20	100.0	1446	1	ME4400342	AJ400342 Unculture
23	20	100.0	1447	1	AF382141	AF382141 Unculture
24	20	100.0	1457	1	CPEAI16SR	Z49874 C.pneumonia
25	20	100.0	1466	1	CPEAI16SR	Z49871 Chlamydophi
26	20	100.0	1466	1	CPOAE16SR	Z49872 Chlamydophi
27	20	100.0	1468	1	AF507685	AF507685 Unculture
28	20	100.0	1471	1	UAC75649	U75649 Unidentifie
29	20	100.0	1479	1	CFTW183RR	Z49873 C.pneumonia
30	20	100.0	1480	1	UEU408994	AJ408994 Unculture
31	20	100.0	1492	1	AY328720	AY328720 Unculture
32	20	100.0	1507	1	AB001778	AB001778 Chlamydot
33	20	100.0	1507	1	AB001779	AB001779 Chlamydot
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35	20	100.0	1507	1	AB001781	AB001781 Chlamydot
36	20	100.0	1507	1	AB001782	AB001782 Chlamydot
37	20	100.0	1507	1	AB001783	AB001783 Chlamydot
38	20	100.0	1507	1	AB001784	AB001784 Chlamydot
39	20	100.0	1507	1	AB001785	AB001785 Chlamydot
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ALIGNMENTS

RESULT 1
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LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE

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partial sequence.
AB018671.1
GI:4587318
16S rRNA.
endosymbiont of *Camponotus kiusiuensis*
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; ant endosymbionts; Candidatus Blochmannia.
1 (sites)
Sameshima, S., Hasegawa, E., Kitade, O., Minaka, N. and Matsumoto, T.
Phylogenetic comparison of the endosymbionts with their host ants

570 bp DNA linear BCT 03-APR-1999
Endosymbiont of *Camponotus kiusiuensis* gene for 16S ribosomal RNA,

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based on molecular evidences
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 570)
AUTHORS Sameshima, S.
TITLE Direct Submission
JOURNAL Submitted (14-OCT-1998) Shinya Sameshima, University of Tokyo,
Department of Biology, 3-8-1 Komaba, Meguro-ku, Tokyo 153-8902,
Japan (E-mail: ss77216hongo.ecc.u-tokyo.ac.jp, Tel: +81-3-5454-6652,
Fax: +81-3-5454-4322)
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LOCUS Uncultured soil bacterium clone s13 16S ribosomal RNA gene, partial
sequence.
DEFINITION AF507717
VERSION AF507717.1 GI:20978172
KEYWORDS uncultured soil bacterium
SOURCE uncultured soil bacterium
ORGANISM Bacteria; environmental samples.
REFERENCE 1 (bases 1 to 601)
AUTHORS Dunbar, J., Barns, S.M., Ticknor, L.O. and Kuske, C.R.
TITLE Empirical and theoretical bacterial diversity in four Arizona soils
JOURNAL Appl. Environ. Microbiol. 68 (6), 3035-3045 (2002)
MEDLINE 22034980
PUBMED 12039765
REFERENCE 2 (bases 1 to 601)
AUTHORS Dunbar, J., Barns, S.M., Ticknor, L.O. and Kuske, C.R.
TITLE Direct Submission
JOURNAL Submitted (26-APR-2002) Biosciences Division, Los Alamos National
Laboratory, M888, Los Alamos, NM 87545, USA
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AY369151 617 bp DNA linear BCT 14-SEP-2003
LOCUS Uncultured soil bacterium clone s13 16S ribosomal RNA gene, partial
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DEFINITION AY369151
VERSION AY369151.1 GI:20978172
KEYWORDS uncultured soil bacterium
SOURCE uncultured soil bacterium
ORGANISM Bacteria; environmental samples.
REFERENCE 1 (bases 1 to 617)
AUTHORS Zheng, X., Yang, H. and Li, D.
TITLE Analysis of the microbial community composition and transition in
the activated sludge of a lab-scale deammonification reactor by
molecular methods
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 617)
AUTHORS Zheng, X., Yang, H. and Li, D.
TITLE Direct Submission
JOURNAL Submitted (18-AUG-2003) School of Life Science and Technology,
Shanghai Jiaotong University, No.800, Dongchuan Road, Shanghai
200240, China
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AF317470 827 bp DNA linear BCT 04-FEB-2002
LOCUS Candidatus Helicobacter bovis strain Toro3A 16S ribosomal RNA gene,
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DEFINITION AF317470
VERSION AF317470.1 GI:18482505
KEYWORDS Candidatus Helicobacter bovis
SOURCE Candidatus Helicobacter bovis
ORGANISM Bacteria; Proteobacteria; Epsilonproteobacteria; Campylobacterales;
Helicobacteraceae; Helicobacter.
REFERENCE 1 (bases 1 to 827)
AUTHORS Gueneau, P., Fuenmayor, J., Aristimuno, O.C., Cedeno, S., Baez, E.,
Reyes, N., Michelangeli, P. and Dominguez-Bello, M.G.
TITLE Are goats naturally resistant to gastric Helicobacter infection?
JOURNAL Vet. Microbiol. 84 (1-2), 115-121 (2002)
MEDLINE 21589087
PUBMED 11731164
REFERENCE 2 (bases 1 to 827)
AUTHORS Gueneau de Novoa, P.
TITLE Direct Submission
JOURNAL Submitted (27-OCT-2000) CBB, IVIC, Km 11 Panamericana, Altos de
Pipe Miranda, Venezuela
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REFERENCE 1 (bases 1 to 617)
AUTHORS Zheng, X., Yang, H. and Li, D.
TITLE Analysis of the microbial community composition and transition in
the activated sludge of a lab-scale deammonification reactor by
molecular methods
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 617)
AUTHORS Zheng, X., Yang, H. and Li, D.
TITLE Direct Submission
JOURNAL Submitted (18-AUG-2003) School of Life Science and Technology,
Shanghai Jiaotong University, No.800, Dongchuan Road, Shanghai
200240, China
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LOCUS Candidatus Helicobacter bovis strain Toro3A 16S ribosomal RNA gene,
partial sequence.
DEFINITION AF317470
VERSION AF317470.1 GI:18482505
KEYWORDS Candidatus Helicobacter bovis
SOURCE Candidatus Helicobacter bovis
ORGANISM Bacteria; Proteobacteria; Epsilonproteobacteria; Campylobacterales;
Helicobacteraceae; Helicobacter.
REFERENCE 1 (bases 1 to 827)
AUTHORS Gueneau, P., Fuenmayor, J., Aristimuno, O.C., Cedeno, S., Baez, E.,
Reyes, N., Michelangeli, P. and Dominguez-Bello, M.G.
TITLE Are goats naturally resistant to gastric Helicobacter infection?
JOURNAL Vet. Microbiol. 84 (1-2), 115-121 (2002)
MEDLINE 21589087
PUBMED 11731164
REFERENCE 2 (bases 1 to 827)
AUTHORS Gueneau de Novoa, P.
TITLE Direct Submission
JOURNAL Submitted (27-OCT-2000) CBB, IVIC, Km 11 Panamericana, Altos de
Pipe Miranda, Venezuela
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ACCESSION	AY220719	
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KEYWORDS	uncultured alpha proteobacterium	
SOURCE	uncultured alpha proteobacterium	
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REFERENCE	1 (bases 1 to 857)	
AUTHORS	Gallagher, J.M., Carton, M., Eardly, D.F. and Patching, J.W.	
TITLE	Prokaryotic community structure and biodiversity in deep waters of the NE Atlantic	
JOURNAL	Unpublished	
REFERENCE	2 (bases 1 to 857)	
AUTHORS	Gallagher, J.M., Carton, M., Eardly, D.F. and Patching, J.W.	
TITLE	Direct Submission	
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Db	641 GGAGGAAGCGGAGGATGACG 660	
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DEFINITION	Uncultured Chloroflexaceae group bacterium 16S rRNA gene, clone P6-C03.	
ACCESSION	AJ309645	
VERSION	AJ309645.1	GI:15552891
KEYWORDS	16S ribosomal RNA; 16S rRNA gene.	
SOURCE	uncultured Chloroflexales bacterium	
ORGANISM	uncultured Chloroflexales bacterium	
REFERENCE	1 (bases 1 to 902)	
AUTHORS	Nubel, U., Bateson, M.M., Madigan, M.T., Kuhl, M. and Ward, D.M.	
TITLE	Diversity and distribution in hypersaline microbial mats of bacteria related to Chloroflexus spp	
JOURNAL	Appl. Environ. Microbiol. 67 (9), 4365-4371 (2001)	
MEDLINE	21417071	
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DEFINITION	Uncultured Chloroflexaceae group bacterium 16S rRNA gene, clone P6-C03.	
ACCESSION	AJ309645	
VERSION	AJ309645.1	GI:15552891
KEYWORDS	16S ribosomal RNA; 16S rRNA gene.	
SOURCE	uncultured Chloroflexales bacterium	
ORGANISM	uncultured Chloroflexales bacterium	
REFERENCE	1 (bases 1 to 902)	
AUTHORS	Nubel, U., Bateson, M.M., Madigan, M.T., Kuhl, M. and Ward, D.M.	
TITLE	Diversity and distribution in hypersaline microbial mats of bacteria related to Chloroflexus spp	
JOURNAL	Appl. Environ. Microbiol. 67 (9), 4365-4371 (2001)	
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Best Local Similarity	100.0%; Pred. No. 37;	
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Db	713 GGAGGAAGCGGAGGATGACG 732	
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LOCUS	AY220719	Uncultured alpha proteobacterium clone WCPAP15 16S ribosomal RNA
DEFINITION	gene, partial sequence.	
ACCESSION	AY220719	
VERSION	AY220719.1	GI:28274894
KEYWORDS	uncultured alpha proteobacterium	
SOURCE	uncultured alpha proteobacterium	
ORGANISM	Bacteria; Proteobacteria; Alphaproteobacteria; environmental samples.	
REFERENCE	1 (bases 1 to 857)	
AUTHORS	Gallagher, J.M., Carton, M., Eardly, D.F. and Patching, J.W.	
TITLE	Prokaryotic community structure and biodiversity in deep waters of the NE Atlantic	
JOURNAL	Unpublished	
REFERENCE	2 (bases 1 to 857)	
AUTHORS	Gallagher, J.M., Carton, M., Eardly, D.F. and Patching, J.W.	
TITLE	Direct Submission	
JOURNAL	Submitted (17-JAN-2003) Microbiology, NUI, Galway, University Rd., Galway, Rep. of Ireland	
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ORIGIN		
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Matches	20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
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Db	641 GGAGGAAGCGGAGGATGACG 660	
RESULT 6	UBA309645	902 bp DNA linear BCT 06-JUN-2003
LOCUS	UBA309645	Uncultured Chloroflexaceae group bacterium 16S rRNA gene, clone P6-C03.
DEFINITION	uncultured Chloroflexales bacterium	
ACCESSION	AJ309645	
VERSION	AJ309645.1	GI:15552891
KEYWORDS	16S ribosomal RNA; 16S rRNA gene.	
SOURCE	uncultured Chloroflexales bacterium	
ORGANISM	Bacteria; Chloroflexi; Chloroflexales; environmental samples.	
REFERENCE	1 (bases 1 to 902)	
AUTHORS	Nubel, U., Bateson, M.M., Madigan, M.T., Kuhl, M. and Ward, D.M.	
TITLE	Diversity and distribution in hypersaline microbial mats of bacteria related to Chloroflexus spp	
JOURNAL	Appl. Environ. Microbiol. 67 (9), 4365-4371 (2001)	
MEDLINE	21417071	
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DEFINITION	uncultured Chloroflexales bacterium	
ACCESSION	AJ309645	
VERSION	AJ309645.1	GI:15552891
KEYWORDS	16S ribosomal RNA; 16S rRNA gene.	
SOURCE	uncultured Chloroflexales bacterium	
ORGANISM	Bacteria; Chloroflexi; Chloroflexales; environmental samples.	
REFERENCE	1 (bases 1 to 902)	
AUTHORS	Nubel, U., Bateson, M.M., Madigan, M.T., Kuhl, M. and Ward, D.M.	
TITLE	Diversity and distribution in hypersaline microbial mats of bacteria related to Chloroflexus spp	
JOURNAL	Appl. Environ. Microbiol. 67 (9), 4365-4371 (2001)	
MEDLINE	21417071	
FEATURES	Location/Qualifiers	
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LOCUS	UBA309645	Uncultured Chloroflexaceae group bacterium 16S rRNA gene, clone P6-C03.
DEFINITION	uncultured Chloroflexales bacterium	
ACCESSION	AJ309645	
VERSION	AJ309645.1	GI:15552891
KEYWORDS	16S ribosomal RNA; 16S rRNA gene.	
SOURCE	uncultured Chloroflexales bacterium	
ORGANISM	Bacteria; Chloroflexi; Chloroflexales; environmental samples.	
REFERENCE	1 (bases 1 to 902)	
AUTHORS	Nubel, U., Bateson, M.M., Madigan, M.T., Kuhl, M. and Ward, D.M.	
TITLE	Diversity and distribution in hypersaline microbial mats of bacteria related to Chloroflexus spp	
JOURNAL	Appl. Environ. Microbiol. 67 (9), 4365-4371 (2001)	
MEDLINE	21417071	
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clone	/clone="P6-C12"	
country	/country="Mexico"	
gene	1..910	
rRNA	/gene="16S rRNA"	
ORIGIN		

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Db      780 GGAGGAAGCGGAGGATGACG 799
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LOCUS      Uncultured Chloroflexaceae group bacterium 16S rRNA gene, clone
DEFINITION      P4-D01.
ACCESSION      AJ309611.1 GI:15552857
VERSION      16S ribosomal RNA; 16S rRNA gene.
KEYWORDS      uncultured Chloroflexales bacterium
SOURCE      uncultured Chloroflexales bacterium
ORGANISM      Bacteria; Chloroflexi; Chloroflexales; environmental samples.
REFERENCE      1 (bases 1 to 911)
AUTHORS      Nubel,U., Bateson,M.M., Madigan,M.T., Kuhl,M. and Ward,D.M.
TITLE      Diversity and distribution in hypersaline microbial mats of
          bacteria related to Chloroflexus spp
JOURNAL      Appl. Environ. Microbiol. 67 (9), 4365-4371 (2001)
MEDLINE      21417071
PUBMED      11526049
REFERENCE      2 (bases 1 to 911)
AUTHORS      Nubel,U.
TITLE      Direct Submission
JOURNAL      Submitted (09-FEB-2001) Nubel U., Molekulare Systematik und
          Oekologie, Deutsche Sammlung von Mikroorganismen und Zellkulturen,
          Mascheroder Weg 1B, Braunschweig, 38124, GERMANY
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gene
rRNA

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Db      781 GGAGGAAGCGGAGGATGACG 800
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RESULT 9
AF050608
LOCUS      Uncultured eubacterium WCHAL-16
DEFINITION      936 bp      DNA      linear      BCT 15-OCT-1998
          Uncultured eubacterium WCHAL-16 16S ribosomal RNA gene, partial
          sequence.
ACCESSION      AF050608.1 GI:2967784
VERSION      16S ribosomal RNA; 16S rRNA gene.
KEYWORDS      uncultured eubacterium WCHAL-16
SOURCE      Bacteria; candidate division OP11; environmental samples.
ORGANISM      Bacteria; candidate division OP11; environmental samples.
REFERENCE      1 (bases 1 to 936)
AUTHORS      Dojka,M.A., Hugenholtz,P., Haack,S.K. and Pace,N.R.
TITLE      Microbial diversity in a hydrocarbon- and
          chlorinated-solvent-contaminated aquifer undergoing intrinsic
          bioremediation
JOURNAL      Appl. Environ. Microbiol. 64 (10), 3869-3877 (1998)
MEDLINE      98432811
PUBMED      9758812
REFERENCE      2 (bases 1 to 936)
AUTHORS      Dojka,M.A. Jr., Hugenholtz,P., Haack,S. and Pace,N.R.
TITLE      Direct Submission

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JOURNAL      Submitted (24-FEB-1998) Plant and Microbial Biology, University of
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Db      629 GGAGGAAGCGGAGGATGACG 648
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RESULT 10
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LOCUS      Uncultured bacterium partial 16S rRNA gene, clone Sh765B-AG-14.
DEFINITION      AJ519648
ACCESSION      AJ519648.1 GI:26005694
VERSION      16S ribosomal RNA; 16S rRNA gene.
KEYWORDS      uncultured bacterium
SOURCE      uncultured bacterium
ORGANISM      Bacteria; environmental samples.
REFERENCE      1
AUTHORS      Geissler,A.
TITLE      Bakterielle Diversitaet in Erdproben aus Uranabfallhalden
JOURNAL      Unpublished
REFERENCE      2
AUTHORS      Geissler,A., Tzvetkova,T., Flemming,K. and Selsenska-Pobell,S.
TITLE      Comparison of natural bacterial communities found in uranium mining
          waste piles and mill tailings
JOURNAL      Unpublished
REFERENCE      3 (bases 1 to 1247)
AUTHORS      Selsenska-Pobell,S.I.
TITLE      Direct Submission
JOURNAL      Submitted (28-NOV-2002) Selsenska-Pobell S.I., Molecular
          Microbiology, Institute of Radiochemistry, FZK, P.O.B. 51 01 19,
          D-01314 Dresden, GERMANY
FEATURES      Location/Qualifiers
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gene
rRNA

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Best Local Similarity      100.0%; Pred. No. 32;
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QY      1 GGAGGAAGCGGAGGATGACG 20
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Db      1048 GGAGGAAGCGGAGGATGACG 1067
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RESULT 11
AF524023
LOCUS
DEFINITION
  Uncultured bacterium clone FW128 16S ribosomal RNA gene, partial
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ACCESSION
  AF524023
VERSION
  AF524023.1
KEYWORDS
  GI:21952426
SOURCE
  uncultured bacterium
  Bacteria; environmental samples.
ORGANISM
  Bacteria; environmental samples.
REFERENCE
  1 (bases 1 to 1255)
  Brofft,J.E., McArthur,J.V. and Shinkets,L.J.
  Recovery of novel bacterial diversity from a forested wetland
  impacted by reject coal
  Environ. Microbiol. 4 (11), 764-769 (2002)
JOURNAL
  Microbiol. 4 (11), 764-769 (2002)
MEDLINE
  22349383
PUBMED
  12460285
REFERENCE
  2 (bases 1 to 1255)
  Brofft,J.E., Shinkets,L.J. and McArthur,J.V.
  Direct Submission
  Submitted (24-JUN-2002) Microbiology, University of Georgia, 527
  Biological Sciences, Athens, GA 30602, USA
JOURNAL
  Biological Sciences, Athens, GA 30602, USA
FEATURES
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RESULT 12
APBRGDC
LOCUS
DEFINITION
  Alpha proteobacterium sp. (clone SAR102) 16S ribosomal RNA (16S
  rRNA) gene, complete rRNA.
ACCESSION
  L35460
VERSION
  L35460.1
KEYWORDS
  GI:529971
  16S ribosomal RNA.
SOURCE
  uncultured alpha proteobacterium
  Bacteria; Proteobacteria; Alphaproteobacteria; environmental
  samples.
REFERENCE
  1 (bases 1 to 1298)
  Mullins,T.D., Britschgi,T.B., Krest,R.L. and Giovannoni,S.J.
  Genetic comparisons reveal the same unknown bacterial lineages in
  Atlantic and Pacific Bacterioplankton communities
  Limnol. Oceanogr. 40 (1), 147-158 (1995)
JOURNAL
  Limnol. Oceanogr. 40 (1), 147-158 (1995)
COMMENT
  Original source text: Alpha proteobacterium sp (clone: SAR102) DNA.
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  rRNA
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RESULT 13
AB088955
LOCUS
DEFINITION
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ACCESSION
  AB088955
VERSION
  AB088955.1
KEYWORDS
  GI:27530167
  uncultured Eubacteriaceae bacterium
SOURCE
  uncultured Eubacteriaceae bacterium
  Bacteria; Firmicutes; Clostridia; Clostridiales; Eubacteriaceae;
  environmental samples.
ORGANISM
  Bacteria; Firmicutes; Clostridia; Clostridiales; Eubacteriaceae;
  environmental samples.
REFERENCE
  1
  Hongoh,Y., Ohkuma,M. and Kudo,T.
  Molecular analysis of bacterial microbiota in the gut of the
  termite Reticulitermes speratus (Isoptera; Rhinotermitidae)
  FEMS Microbiol. Ecol. 44, 231-242 (2003)
JOURNAL
  FEMS Microbiol. Ecol. 44, 231-242 (2003)
REFERENCE
  2 (bases 1 to 1313)
  Hongoh,Y., Ohkuma,M. and Kudo,T.
  Direct Submission
  Submitted (26-JUL-2002) Yuichi Hongoh, Japan Science and Technology
  Corporation (JST), Bio-Recycle Project, International Cooperative
  Research Project; Hiroseawa 2-1, Wako-shi, Saitama 351-0198, Japan
  (E-mail:yhongoh@postman.riken.go.jp, Tel:81-48-467-9546,
  Fax:81-48-462-4672)
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DEFINITION
  Uncultured bacterium TA18 16S ribosomal RNA gene, partial sequence.
ACCESSION
  AF229791
VERSION
  AF229791.1
KEYWORDS
  GI:12642398
  uncultured bacterium TA18
SOURCE
  uncultured bacterium TA18
  Bacteria; environmental samples.
ORGANISM
  Bacteria; environmental samples.
REFERENCE
  1 (bases 1 to 1318)
  Wu,J.H., Liu,W.T., Tseng,I.C. and Cheng,S.S.
  Characterization of microbial consortia in a
  TITLE
  Characterization of microbial consortia in a
  ORIGIN
  Query Match 100.0%; Score 20; DB 1; Length 1318;
  Best Local Similarity 100.0%; Pred.No. 32;
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  QY 1 GGAGGAGGCGGAGGATGACG 20
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  Db 1099 GGAGGAGGCGGAGGATGACG 1118

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terephthalate-degrading anaerobic granular sludge system
Microbiology 147 (Pt 2), 373-382 (2001)

JOURNAL
MEDLINE
PUBMED
REFERENCE
AUTHORS
TITLE
JOURNAL

2 (bases 1 to 1318)
Wu, J.H., Liu, W.T., Tseng, I.C. and Cheng, S.S.
Direct Submission

Submitted (01-FEB-2000) Department of Environmental Engineering,
National Cheng Kung University, 1 University Road, Tainan 701,
Taiwan, ROC

FEATURES

Location/Qualifiers

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Cy 1 GGAGGAAGCGGAGGATGACG 20

Db 1026 GGAGGAAGCGGAGGATGACG 1045

RESULT 15

AF127027

LOCUS

AF127027 1335 bp DNA linear BCT 17-NOV-1999
Helicobacter bovis 16S ribosomal RNA gene, partial sequence.

DEFINITION

AF127027

ACCESSION

AF127027.1

VERSION

GI:6018194

KEYWORDS

Candidatus Helicobacter bovis

SOURCE

Candidatus Helicobacter bovis

ORGANISM

Bacteria; Proteobacteria; Epsilonproteobacteria; Campylobacteriales;
Helicobacteraceae; Helicobacter.

REFERENCE

1 (bases 1 to 1335)

De Groot, D., van Doorn, L.J., Ducatelle, R., Verschuren, A.,
Tilmant, K., Quint, W.G., Haesebrouck, F. and Vandamme, P.

AUTHORS

Phylogenetic characterization of 'Candidatus Helicobacter bovis', a
new gastric helicobacter in cattle

TITLE

Int. J. Syst. Bacteriol. 49 Pt 4, 1707-1715 (1999)

JOURNAL

20023052

MEDLINE

10555352

PUBMED

2 (bases 1 to 1335)

REFERENCE

De Groot, D., van Doorn, L.-J., Ducatelle, R., Verschuren, A.,
Tilmant, K., Haesebrouck, F., Quint, W. and Vandamme, P.

AUTHORS

Direct Submission

TITLE

Submitted (09-FEB-1999) Pathology, Bacteriology and Avian Diseases,
University Ghent, Salisburylaan 133, Merelbeke B-9820, Belgium

JOURNAL

Location/Qualifiers

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/organism="Candidatus Helicobacter bovis"

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ORIGIN

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Db 1103 GGAGGAAGCGGAGGATGACG 1122

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 04:03:11 ; Search time 875.663 Seconds
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Title: US-09-940-860-1

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Gapop_60.0 , Gapext 60.0

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Post-processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	20	100.0	37	6	AX709025	Sequence
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4	20	100.0	129	1	MC016SR2	Marinomonas
5	20	100.0	131	1	LPNRRDA02	L.pneumophi
6	20	100.0	131	1	TAMR001	T.micdadei
7	20	100.0	131	1	TAMR06R11	T.micdadei
8	20	100.0	131	1	VIB16SR11	Vibrio chol
9	20	100.0	133	1	TAMRDA02	T.micdadei
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13	20	100.0	138	1	CLORDNA16S	Clostridium
14	20	100.0	140	1	LPNEMRRN02	F.bozemanae
15	20	100.0	140	1	LPNDTRRN02	F.dumoffii
16	20	100.0	150	1	ALTE16SR2	Alteromonas
17	20	100.0	150	1	VIB16SR12	Vibrio chol
18	20	100.0	155	1	AEGS16SR	Aeromonas s
19	20	100.0	161	6	E05163	Sequence of
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21	20	100.0	176	1	D2856SR2	Shpingtonoma
22	20	100.0	176	1	D28571SR2	Shpingtonoma
23	20	100.0	176	1	D28574SR2	Shpingtonoma
24	20	100.0	176	1	VIB16SR10	Vibrio chol
25	20	100.0	178	1	PHRL16SR	Photobacter
26	20	100.0	182	1	AEOH16SR2	Aeromonas h
27	20	100.0	183	1	UO46SR21	Unidentifie
28	20	100.0	188	1	AY373834	Uncultured
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31	20	100.0	191	6	AX575429	Sequence
32	20	100.0	192	1	AF045813	Uncultured
33	20	100.0	193	1	AF228141	Marine sea
34	20	100.0	193	1	AF228146	Marine sea
35	20	100.0	195	6	D28355	Sequence 7
36	20	100.0	195	6	BD011645	DNA oligo
37	20	100.0	196	1	AF045815	Uncultured
38	20	100.0	200	1	AF045823	Uncultured
39	20	100.0	200	1	UBA421167	AJ421167
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41	20	100.0	203	1	AF045827	Uncultured
42	20	100.0	206	1	ALTH16SR2	Alteromonas
43	20	100.0	207	1	AEGM16SR	Aeromonas m
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ALIGNMENTS

RESULT 1	AX575427	23 bp	DNA	linear	PAT 07-JAN-2003
LOCUS	AX575427				
DEFINITION	Sequence 2 from Patent WO02077271.				
ACCESSION	AX575427				
VERSION	AX575427.1	GI:27552061			
KEYWORDS	synthetic construct				
SOURCE	synthetic construct				
ORGANISM	artificial sequences.				
REFERENCE	1				
AUTHORS	Vollenbroich, D. and Schramm, C.				
TITLE	Control plasmid and method for detecting mycoplasma contamination in biological material				
JOURNAL	Patent: WO 02077271-A 2 03-OCT-2002;				

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Db 4 GCAACACAGGATTAGATACCC 23

RESULT 2
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LOCUS AX709025 37 bp DNA linear PAT 04-APR-2003
DEFINITION Sequence 1 from Patent WO03014382.
ACCESSION AX709025
VERSION AX709025.1 GI:29564699
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1
AUTHORS Mittermayr,C.R., Ronacher,B., Wanner,F. and Zehethofer,K.
TITLE Device for analyzing nucleic acid
JOURNAL Patent: WO 03014382-A 1 20-FEB-2003;
Lambda Labor fuer Molekularbiologische DNA-Analysen GmbH (AT)
FEATURES
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Db 6 GCAACACAGGATTAGATACCC 25

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LOCUS BD140316 47 bp DNA linear PAT 18-SEP-2002
DEFINITION Universal eubacteria nucleic acid probe and method.
ACCESSION BD140316
VERSION BD140316.1 GI:23235261
KEYWORDS JP 2002051799-A/9.
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 47)
AUTHORS Lane,D.J., Shah,J., Buharin,A. and Weisburg,W.G.
TITLE Universal eubacteria nucleic acid probe and method
JOURNAL Patent: JP 2002051799-A 9 19-FEB-2002;
COMMENT GENE TRAK SYSTEMS
OS Artificial Sequence
PN JP 2002051799-A/9
PD 19-FEB-2002
PF 11-APR-2001 JP 2001150160
PR 31-MAY-1989 US 359158
PI DAVID J. LANE,JYOTSNA SHAH,AMELIA BUHARIN,WILLIAM G WEISBURG PC
C12Q1/68,C12N15/09,C12N15/09,C12N15/09,C12N15/00,C12N15/00 CC Synthesized
probe for hybridization

```

```

FEATURES
  source
    Location/Qualifiers
      1..47
      /organism="Artificial Sequence"

ORIGIN
  Query Match      100.0%; Score 20; DB 6; Length 47;
  Best Local Similarity 100.0%; Pred. No. 1.1e+05;
  Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAACACAGGATTAGATACCC 20
    |||||
Db 33 GCAACACAGGATTAGATACCC 14

RESULT 4
MC016SR2
LOCUS MC016SR2 129 bp rRNA linear BCT 04-NOV-1999
DEFINITION Marinomonas communis 16S rRNA.
ACCESSION D11230
VERSION D11230.1 GI:286047
KEYWORDS Marinomonas communis
SOURCE Marinomonas communis
ORGANISM Marinomonas communis
REFERENCE 1 (bases 1 to 129)
AUTHORS Kita-Tsukamoto,K., Oyaizu,H., Namba,K. and Simidu,U.
TITLE Phylogenetic relationships of marine bacteria, mainly members of
the family Vibrionaceae, determined on the basis of 16S rRNA
sequences
JOURNAL Int. J. Syst. Bacteriol. 43 (1), 8-19 (1993)
MEDLINE 93152464
PUBMED 8427811
REFERENCE 2 (bases 1 to 129)
AUTHORS Kita-Tsukamoto,K.
TITLE Direct Submission
JOURNAL Submitted (30-APR-1992) Kumiko Kita-Tsukamoto, University of Tokyo,
Ocean Research Institute; 1-15-1 Minamidai, Nakano-Ku, Tokyo 164,
Japan (E-mail:tukamoto@ai3.ori.u-tokyo.ac.jp, Tel:03-3376-1251,
Fax:03-3375-6716)
FEATURES
  source
    Location/Qualifiers
      1..129
      /organism="Marinomonas communis"
      /mol_type="rRNA"
      /strain="IAM12914"
      /db_xref="taxon:28254"

ORIGIN
  Query Match      100.0%; Score 20; DB 1; Length 129;
  Best Local Similarity 100.0%; Pred. No. 6e+04;
  Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAACACAGGATTAGATACCC 20
    |||||
Db 4 GCAACACAGGATTAGATACCC 23

RESULT 5
LPNRRDA02
LOCUS LPNRRDA02 131 bp rRNA linear BCT 23-JUL-1993
DEFINITION L.pneumophila (strain Chicago-2) 16S rRNA, partial, segment 2 of 3.
ACCESSION M19442
VERSION M19442.1 GI:175170
KEYWORDS 16S ribosomal RNA.
SEGMENT 2 of 3
SOURCE Legionella pneumophila
ORGANISM Legionella pneumophila
Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales;

```



```

LOCUS      E05154      137 bp      DNA      linear      PAT 29-SEP-1997
DEFINITION Sequence of a DNA fraction prepared by a restriction enzyme HAP II
            from DNA coding for E.coli 16S ribosome RNA.
ACCESSION  E05154
VERSION    E05154.1  GI:2173347
KEYWORDS   JP 1993192147-A/26.
SOURCE     Escherichia coli
ORGANISM   Escherichia coli
REFERENCE  Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
AUTHORS    Enterobacteriaceae; Escherichia.
TITLE      1 (bases 1 to 137)
JOURNAL    METHOD FOR SPECIFYING DNA BASE SEQUENCE
COMMENT    Patent: JP 1993192147-A 26 03-AUG-1993;
          KIRIN BIBARETSUJI KK
          OS Escherichia coli
          PN JP 1993192147-A/26
          PD 03-AUG-1993
          PF 15-NOV-1991 JP 1991300882
          PI SHIRASU YOSHITHARU
          PC C12N15/00,C12Q1/06,C12Q1/68;
          CC strandedness: Double;
          CC topology: Linear;
          CC *source: strain-K12.
FEATURES   Location/Qualifiers
            source
              1..137
                /organism="Escherichia coli"
                /mol_type="genomic DNA"
                /db_xref="taxon:562"
ORIGIN
Query Match      100.0%; Score 20; DB 6; Length 137;
Best Local Similarity 100.0%; Pred. No. 5.8e+04;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
    |||||
Db 58 GCAACAGGATTAGATACCC 77

RESULT 13
LOCUS      CLORDNA16S      138 bp      DNA      linear      BCT 28-MAR-1994
DEFINITION Clostridium butyricum 16S ribosomal DNA gene.
ACCESSION  L08598
VERSION    L08598.1  GI:144899
KEYWORDS   16S ribosomal DNA.
SOURCE     Clostridium butyricum
ORGANISM   Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;
            Clostridium.
REFERENCE  Galindo,I., Rangel-Aldao,R. and Ramirez,J.L.
AUTHORS    A combined polymerase chain reaction-colour development
TITLE      hybridization assay in a microtitre format for the detection of
            Clostridium spp
JOURNAL    Appl. Microbiol. Biotechnol. 39 (4-5), 553-557 (1993)
MEDLINE    93356986
PUBMED     7763926
REFERENCE  2 (bases 1 to 138)
AUTHORS    Galindo-Castro, I.F., Rangel, R. and Ramirez, J.L.
TITLE      (no title given)
JOURNAL    Unpublished (1993)
COMMENT    Original source text: Clostridium butyricum (individual isolate Los
            Cortijos) (library: EMBL4-LBB) DNA.
FEATURES   Location/Qualifiers
            source
              1..138
                /organism="Clostridium butyricum"
                /mol_type="unassigned DNA"
                /db_xref="taxon:1492"
                /products="16S ribosomal RNA"
                /note="corresponds to position 703 of the E. coli 16S
            rRNA

LOCUS      E05154      137 bp      DNA      linear      PAT 29-SEP-1997
DEFINITION Sequence of a DNA fraction prepared by a restriction enzyme HAP II
            from DNA coding for E.coli 16S ribosome RNA.
ACCESSION  E05154
VERSION    E05154.1  GI:2173347
KEYWORDS   JP 1993192147-A/26.
SOURCE     Escherichia coli
ORGANISM   Escherichia coli
REFERENCE  Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
AUTHORS    Enterobacteriaceae; Escherichia.
TITLE      1 (bases 1 to 137)
JOURNAL    METHOD FOR SPECIFYING DNA BASE SEQUENCE
COMMENT    Patent: JP 1993192147-A 26 03-AUG-1993;
          KIRIN BIBARETSUJI KK
          OS Escherichia coli
          PN JP 1993192147-A/26
          PD 03-AUG-1993
          PF 15-NOV-1991 JP 1991300882
          PI SHIRASU YOSHITHARU
          PC C12N15/00,C12Q1/06,C12Q1/68;
          CC strandedness: Double;
          CC topology: Linear;
          CC *source: strain-K12.
FEATURES   Location/Qualifiers
            source
              1..137
                /organism="Escherichia coli"
                /mol_type="genomic DNA"
                /db_xref="taxon:562"
ORIGIN
Query Match      100.0%; Score 20; DB 6; Length 137;
Best Local Similarity 100.0%; Pred. No. 5.8e+04;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
    |||||
Db 58 GCAACAGGATTAGATACCC 77

RESULT 13
LOCUS      CLORDNA16S      138 bp      DNA      linear      BCT 28-MAR-1994
DEFINITION Clostridium butyricum 16S ribosomal DNA gene.
ACCESSION  L08598
VERSION    L08598.1  GI:144899
KEYWORDS   16S ribosomal DNA.
SOURCE     Clostridium butyricum
ORGANISM   Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;
            Clostridium.
REFERENCE  Galindo,I., Rangel-Aldao,R. and Ramirez,J.L.
AUTHORS    A combined polymerase chain reaction-colour development
TITLE      hybridization assay in a microtitre format for the detection of
            Clostridium spp
JOURNAL    Appl. Microbiol. Biotechnol. 39 (4-5), 553-557 (1993)
MEDLINE    93356986
PUBMED     7763926
REFERENCE  2 (bases 1 to 138)
AUTHORS    Galindo-Castro, I.F., Rangel, R. and Ramirez, J.L.
TITLE      (no title given)
JOURNAL    Unpublished (1993)
COMMENT    Original source text: Clostridium butyricum (individual isolate Los
            Cortijos) (library: EMBL4-LBB) DNA.
FEATURES   Location/Qualifiers
            source
              1..138
                /organism="Clostridium butyricum"
                /mol_type="unassigned DNA"
                /db_xref="taxon:1492"
                /products="16S ribosomal RNA"
                /note="corresponds to position 703 of the E. coli 16S
            rRNA

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ORIGIN      ribosomal DNA gene"
Query Match      100.0%; Score 20; DB 1; Length 138;
Best Local Similarity 100.0%; Pred. No. 5.8e+04;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
    |||||
Db 77 GCAACAGGATTAGATACCC 96

RESULT 14
LOCUS      LPNEMRRN02      140 bp      rRNA      linear      BCT 23-JUL-1993
DEFINITION F.bozemanae (Legionella) 16S ribosomal RNA.
ACCESSION  M24643
VERSION    M24643.1  GI:175149
KEYWORDS   16S ribosomal RNA; ribosomal RNA small subunit.
SEGMENT    2 of 3
SOURCE     Fluoribacter bozemanae
ORGANISM   Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales;
            Legionellaceae; Fluoribacter.
REFERENCE  1 (sites)
AUTHORS    Fox,K., Brown,A. and Schnitzer,G.
TITLE      Partial sequence analysis of the 16S-rRNA of Legionellae: Taxonomic
            implications
JOURNAL    Syst. Appl. Microbiol. 11, 135-139 (1989)
REFERENCE  2 (bases 1 to 140)
AUTHORS    Brown,A., Fox,K.F. and Schnitzer,G.
TITLE      Tatlockia, a genetically and chemically distinct group of bacteria:
            Proposal to transfer Legionella maceachernii (Brenner, et al.) to
            the genus Tatlockia as Tatlockia maceachernii comb. nov
JOURNAL    Syst. Appl. Microbiol. 14, 52-56 (1991)
COMMENT    Original source text: Fluoribacter bozemanae (strain MI-15) rRNA.
FEATURES   Location/Qualifiers
            source
              1..140
                /organism="Fluoribacter bozemanae"
                /mol_type="rRNA"
                /strain="MI-15"
                /db_xref="taxon:447"
                <1..>140
                /product="16S ribosomal RNA"
            ORIGIN      About 243 bp after segment 1.
Query Match      100.0%; Score 20; DB 1; Length 140;
Best Local Similarity 100.0%; Pred. No. 5.7e+04;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
    |||||
Db 15 GCAACAGGATTAGATACCC 34

RESULT 15
LOCUS      LPNDTRRN02      140 bp      rRNA      linear      BCT 23-JUL-1993
DEFINITION F.dumoffii (Legionella) 16S ribosomal RNA.
ACCESSION  M24642
VERSION    M24642.1  GI:175161
KEYWORDS   16S ribosomal RNA; ribosomal RNA small subunit.
SEGMENT    2 of 3
SOURCE     Fluoribacter dumoffii
ORGANISM   Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales;
            Legionellaceae; Fluoribacter.
REFERENCE  1 (sites)
AUTHORS    Fox,K., Brown,A. and Schnitzer,G.
TITLE      Partial sequence analysis of the 16S-rRNA of Legionellae: Taxonomic
            implications
JOURNAL    Syst. Appl. Microbiol. 11, 135-139 (1989)
REFERENCE  2 (bases 1 to 140)

```

AUTHORS Brown,A., Fox,K.F. and Schnitzer,G.
 TITLE Tatlockia, a genetically and chemically distinct group of bacteria:
 Proposal to transfer Legionella maceachernii (Brenner, et al.) to
 the genus Tatlockia as Tatlockia maceachernii comb. nov
 JOURNAL Syst. Appl. Microbiol. 14, 52-56 (1991)
 COMMENT Original source text: F.(Legionella) dumoffii (strain Tex-KL)
 ribosomal RNA.

FEATURES Location/Qualifiers
 source 1..140
 /organism="Fluoribacter dumoffii"
 /mol_type="rRNA"
 /db_xref="taxon:463"
 rRNA <1..>140
 /note="16S rRNA segment"

ORIGIN About 243 bases after segment 1.

Query Match 100.0%; Score 20; DB 1; Length 140;
 Best Local Similarity 100.0%; Pred. No. 5.7e+04;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 GCAACACAGGATTAGATACCC 20
 |||||
 Db 15 GCAACACAGGATTAGATACCC 34

Search completed: August 4, 2004, 07:44:15
 Job time : 877.663 secs

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OM nucleic - nucleic search, using sw model

Run on: August 4, 2004, 04:00:30 ; Search time 164.337 Seconds
(without alignments)
517.009 Million cell updates/sec

Title: US-09-940-860-1

Perfection score: 20
Sequence: 1 gcaaacaggattagataccc 20

Scoring table: OLIGO_NUC
Gapop_60.0 , Gapext 60.0

Searched: 3373863 seqs, 2124099041 residues

Word size : 0

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : N Geneseq 29Jan04:*
1: geneseqn1980s:*
2: geneseqn1990s:*
3: geneseqn2000s:*
4: geneseqn2001as:*
5: geneseqn2001bs:*
6: geneseqn2002s:*
7: geneseqn2003as:*
8: geneseqn2003bs:*
9: geneseqn2003cs:*
10: geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	23	7	Abv74328 Mycoplasma
2	20	100.0	24	3	Aaa39031 Unknown b
3	20	100.0	37	8	ABX94830 16S rRNA
4	20	100.0	37	8	ABX94859 16S rRNA
5	20	100.0	47	2	AAQ10118 Probe 173
6	20	100.0	50	6	ABL59813 Enterococ
7	20	100.0	50	6	ABL59817 Peptostre
8	20	100.0	50	6	ABL59820 Chlamydia
9	20	100.0	50	6	ABL59819 Fusobacte
10	20	100.0	50	6	ABL59786 Campyloba
11	20	100.0	50	6	ABL59805 Myxococcu
12	20	100.0	50	6	ABL59787 Helicobac
13	20	100.0	50	6	ABL59796 Salmonell
14	20	100.0	50	6	ABL59799 Legionell
15	20	100.0	50	6	ABL59801 Caulobact
16	20	100.0	50	6	ABL59794 Haemophil
17	20	100.0	50	6	ABL59795 Escherich
18	20	100.0	50	6	ABL59812 Listeria
19	20	100.0	50	6	ABL59816 Clostridi
20	20	100.0	50	6	ABL59804 Wolbachia
21	20	100.0	50	6	ABL59790 Leptothri
22	20	100.0	50	6	ABL59788 Treponema
23	20	100.0	50	6	ABL59803 Nitrobact

24	20	100.0	50	6	ABL59792	AbL59792 Neisseria
25	20	100.0	50	6	ABL59791	AbL59791 Thiomicro
26	20	100.0	50	6	ABL59802	AbL59802 Rhodospir
27	20	100.0	50	6	ABL59793	AbL59793 Actinobac
28	20	100.0	50	6	ABL59797	AbL59797 Vibrio Ch
29	20	100.0	50	6	ABL59800	AbL59800 Pseudomon
30	20	100.0	105	6	ABN66212	ABN66212 Streptoco
c 31	20	100.0	122	7	ACD97427	ACD97427 Human col
32	20	100.0	191	7	ABV74330	ABV74330 Mycoplasma
c 33	20	100.0	195	2	AAQ20319	AAQ20319 Region of
c 34	20	100.0	195	4	AAH27463	AAH27463 Polynucle
c 35	20	100.0	279	9	ADC93544	ADC93544 E. faeciu
c 36	20	100.0	279	9	ADC93543	ADC93543 E. faeciu
c 37	20	100.0	312	7	ACD92910	ACD92910 Human col
c 38	20	100.0	312	7	ACD92986	ACD92986 Human col
c 39	20	100.0	312	7	ACD93011	ACD93011 Human col
c 40	20	100.0	312	7	ACD92911	ACD92911 Human col
41	20	100.0	338	7	ACD92089	ACD92089 Human col
42	20	100.0	368	7	ACD92108	ACD92108 Human col
43	20	100.0	442	3	AAC09938	AAC09938 Human sec
44	20	100.0	549	3	AAC95222	AAC95222 Cat flea
45	20	100.0	571	3	AAZ80671	AAZ80671 Human col

ALIGNMENTS

RESULT 1

ABV74328
ID ABV74328 standard; DNA; 23 BP.
XX
AC ABV74328;
XX
DT 29-JAN-2003 (first entry)
XX
DE Mycoplasma 16S rRNA gene PCR primer SEQ ID NO 2.
XX
KW Mollicutes sp; Mycoplasma; 16S rRNA; infection; PCR; primer; ss.
OS Mycoplasma sp.
XX
FN WO200277271-A2.
XX
PD 03-OCT-2002.
XX
PF 25-MAR-2002; 2002WO-DE001154.
XX
PR 25-MAR-2001; 2001DE-01015749.
XX
(MINE-) MINERVA BIOLABS GMBH.
XX
Vollenbroich D, Schramm C;
XX
WPI; 2003-040591/03.
XX
Control plasmid, useful as internal standard in amplification method for
detecting Mycoplasma, contains primers that recognize parts of the
Mycoplasma 16S rRNA gene.
XX
Claim 2; Page 15; 25pp; German.

The invention relates to a control plasmid (A) containing: (a) primers that recognize a segment of the 16S rRNA-encoding gene in the Mycoplasma genome; and (b) between the primers an amplicon that includes the sequence (i). (A) is used as a control in a PCR method for detecting Mycoplasma in biological materials, e.g. for diagnosing infections or detecting contamination of cell cultures. (A) provides an internal control for PCR detection of Mycoplasma to exclude false negatives. The method is more sensitive and specific than known processes, providing reliable detection of even very low titers of Mycoplasma and when used in real-time PCR, has a broad dynamic and linear measurement range, allowing accurate quantitation. The present sequence is that of a Mycoplasma 16S rRNA gene PCR primer of the invention

```
XX SQ Sequence 23 BP; 9 A; 5 C; 6 G; 3 T; 0 U; 0 Other;
Query Match 100.0%; Score 20; DB 7; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAACACGAGTATAGATACCC 20
Db 4 GCAACACGAGTATAGATACCC 23

RESULT 2
AAA39031
ID AAA39031 standard; DNA; 24 BP.
AC AAA39031;
AC AAA39031;
DT 25-AUG-2000 (first entry)
DE Unknown bacterial 16S rRNA gene primer 0776F SEQ ID NO:9.
KW Bacterial; 16S rRNA; identification; polymorphism; microorganism;
KW classification; primer; human medicine; veterinary medicine; agriculture;
KW food science; industrial microbiology; infectious disease; food safety;
KW ss.
OS Unidentified.
XX US6054278-A.
XX 25-APR-2000.
XX 05-MAY-1998; 98US-00073465.
XX 05-MAY-1997; 97US-0045603P.
XX (PEKE ) PERKIN-ELMER CORP.
XX Smith DH, Dodge DE;
XX WPI; 2000-338486/29.
XX
XX Identifying an unknown microorganism by generating a composite sequence
XX of its ribosomal RNA gene region and comparing with composite ribosomal
XX RNA region sequences of distinct microorganisms in a database.
XX
XX Example; Col 10; lipp; English.
XX
XX The present invention describes a method for identifying a microorganism
XX by comparing a composite sequence (I) of a ribosomal RNA gene region with
XX RNA region sequences of unknown microorganisms in a database and
XX identifying the region in the database that matches with (I). (I) is
XX generated by simultaneously obtaining nucleotide base sequence data from
XX every copy of the RNA gene region in the genome of the unknown
XX microorganism. Also described is a method for identifying the species of
XX microorganism by generating (I) and entering it into a first data
XX register of a programmable computer, comparing the first data register
XX with reference data registers that encode a unique composite rRNA
XX sequence corresponding to (I) and correlated with unique microorganism
XX species name, and displaying the unique microorganism name correlated
XX with the best matching first data register. The method is useful for
XX identifying microorganisms which are useful in a variety of fields
XX including human medicine, veterinary medicine, agriculture, food science
XX and industrial microbiology. The microorganisms found in patients
XX suffering from an infectious disease can also be identified.
XX Microorganism identification is also useful for monitoring food safety by
XX testing for pathogens. Plants harbouring phytopathogenic bacteria are
XX also identified. The method is convenient and efficient as there is no
XX need to isolate one or more individual 16S rRNA genes. AAA39023 to
XX AAA39039 represent primers for the 16S rRNA gene, which are used in the
XX exemplification of the present invention
```

```
XX SQ Sequence 24 BP; 9 A; 5 C; 6 G; 4 T; 0 U; 0 Other;
Query Match 100.0%; Score 20; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAACACGAGTATAGATACCC 20
Db 2 GCAACACGAGTATAGATACCC 21

RESULT 3
ABX94830
ID ABX94830 standard; DNA; 37 BP.
XX AC ABX94830;
XX 11-JUL-2003 (first entry)
XX 16S rRNA forward PCR primer SEQ ID 1.
XX
XX Probe; detection; primer; 16S rRNA; amplification; parodontitis; SNP;
XX gene expression pattern; single-nucleotide polymorphism; ss.
XX OS Unidentified.
XX WO2003014382-A2.
XX 20-FEB-2003.
XX 08-AUG-2002; 2002WO-AT000239.
XX 09-AUG-2001; 2001AT-00001247.
XX (LAMB-) LAMBDA LABOR MOLEKULARBIOLOGISCHE.
XX Mittermayr CR, Ronacher B, Winner F, Zehethofer K;
XX WPI; 2003-256597/25.
XX
XX Device for determining analytes, useful e.g. for detecting bacteria that
XX cause parodontitis, comprises a surface with immobilized analytical and
XX control agents.
XX
XX Disclosure; Page 26; Sipp; German.
XX
XX This invention describes a novel device for detecting analytes in a
XX sample. The device comprises a carrier surface which contains at least
XX one analytical region (including at least one immobilised binding partner
XX for the analyte) and at least one control region which controls of the
XX quality of analysis. The device is particularly used for nucleic acid
XX amplification and detection of (i) bacterial species associated with
XX parodontitis, (ii) gene expression patterns and (iii) single-nucleotide
XX polymorphisms (SNP's). The device provides reproducible, rapid and simple
XX analysis of nucleic acid sequences. The control system is subjected to
XX exactly the same series of operations as the analytical regions, so no
XX extra time for the control step is required and system costs are not
XX significantly more than for analysis without a control. If the device is
XX stored for archiving, the control results are also saved. Many different
XX analytes can be detected simultaneously and controls for many different
XX aspects of analytical quality can be included. This sequence represents
XX an oligonucleotide associated with the detection of 16S rRNA from various
XX bacterial samples, which is used to illustrate the device of the
XX invention
XX
XX Sequence 37 BP; 11 A; 8 C; 12 G; 6 T; 0 U; 0 Other;
Query Match 100.0%; Score 20; DB 8; Length 37;
Best Local Similarity 100.0%; Pred. No. 0.099;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCAACACGAGTATAGATACCC 20
```

Db 6 GCAACACAGGATTAGATACCC 25

RESULT 4
ABX94859
ID ABX94859 standard; DNA; 37 BP.
XX AC ABX94859;
XX DT 11-JUL-2003 (first entry)
XX DE 16S rRNA detection associated positive control oligonucleotide #3.
XX KW Probe, detection; primer; 16S rRNA; amplification; parodontitis; SNP;
XX OS gene expression pattern; single-nucleotide polymorphism; ss.
XX UN Unidentified.
XX PN WO2003014382-A2.
XX PD 20-FEB-2003.
XX PF 08-AUG-2002; 2002WO-AT000239.
XX PR 09-AUG-2001; 2001AT-00001247.
XX PA (LAMB-) LAMBDA LABOR MOLEKULARBIOLOGISCHE.
XX PI Mittermayr CR, Ronacher B, Wimmer F, Zehethofer K;
XX WPI; 2003-256597/25.
XX PT Device for determining analytes, useful e.g. for detecting bacteria that
XX cause parodontitis, comprises a surface with immobilized analytical and
XX control agents.
XX PS Claim 22; Page 37; 51pp; German.
XX CC This invention describes a novel device for detecting analytes in a
XX sample. The device comprises a carrier surface which contains at least
XX one analytical region (including at least one immobilised binding partner
XX for the analyte) and at least one control region which controls of the
XX quality of analysis. The device is particularly used for nucleic acid
XX amplification and detection of (i) bacterial species associated with
XX parodontitis, (ii) gene expression patterns and (iii) single-nucleotide
XX polymorphisms (SNP's). The device provides reproducible, rapid and simple
XX analysis of nucleic acid sequences. The control system is subjected to
XX exactly the same series of operations as the analytical regions, so no
XX extra time for the control step is required and system costs are not
XX significantly more than for analysis without a control. If the device is
XX stored for archiving, the control results are also saved. Many different
XX analytes can be detected simultaneously and controls for many different
XX aspects of analytical quality can be included. This sequence represents
XX an oligonucleotide associated with the detection of 16S rRNA from various
XX bacterial samples, which is used to illustrate the device of the
XX invention
XX SQ Sequence 37 BP; 11 A; 8 C; 12 G; 6 T; 0 U; 0 Other;
Query Match 100.0%; Score 20; DB 8; Length 37;
Best Local Similarity 100.0%; Pred. No. 0.099;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCAACACAGGATTAGATACCC 20
Db 6 GCAACACAGGATTAGATACCC 25
RESULT 5
AAQ10118/c
ID AAQ10118 standard; DNA; 47 BP.
XX AAQ10118;
XX AC

XX 27-AUG-2003 (revised)
DT 09-JAN-2003 (revised)
DT 14-MAR-1991 (first entry)
XX DE Probe 1739 to the 16S rRNA of Eubacteria.
XX KW ribosomal RNA; ss.
XX OS Eubacteria.
XX PN WO9015157-A.
XX PD 13-DEC-1990.
XX PF 31-MAY-1989; 89US-00359158.
XX PR 31-MAY-1989; 89US-00359158.
XX PA (GENE-) GENE-TRAK SYST.
XX PI Lane DJ, Buharin A, Weisburg WG;
XX WPI; 1991-007226/01.
XX PT Nucleic acid probes - specific for RNA of Eubacteria, for use in clinical
XX assays.
XX PS Disclosure; Page 14-16; 58pp; English.
XX CC Probes allow assay for Eubacteria to be carried out in clinical samples
XX such as blood or urine, in a cost effective and fast manner. The probes
XX require only small sample sizes which may be amplified, with some of the
XX probes suitable as primers. (Updated on 09-JAN-2003 to add missing OS
XX field.) (Updated on 27-AUG-2003 to correct OS field.)
XX SQ Sequence 47 BP; 6 A; 15 C; 12 G; 14 T; 0 U; 0 Other;
Query Match 100.0%; Score 20; DB 2; Length 47;
Best Local Similarity 100.0%; Pred. No. 0.098;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCAACACAGGATTAGATACCC 20
Db 33 GCAACACAGGATTAGATACCC 14
RESULT 6
ABL59813
ID ABL59813 standard; DNA; 50 BP.
XX AC ABL59813;
XX DT 18-JUL-2002 (first entry)
XX DE Enterococcus faecalis 16S rDNA fragment #3.
XX KW Detection; microorganism; 16S rDNA; 16S rRNA; identification; gene;
XX microbial encephalitis; viral encephalitis; ds.
XX OS Enterococcus faecalis.
XX PN WO200210444-A1.
XX PD 07-FEB-2002.
XX PF 27-JUL-2001; 2001WO-AU000933.
XX PR 28-JUL-2000; 2000AU-00009090.
XX PA (UNSY) UNIV SYDNEY.
XX PI Hunter N, Jacques NA, Martin PE, Nadkarni MA;

XX WPI; 2002-404428/43.
 DR
 XX
 PT Polynucleotide useful as primer or probe for determining microbial
 PT content in sample, has sequence which is comprised by 16S rDNA or 16S
 PT rRNA, substantially conserved amongst two or more species of
 PT microorganism.
 XX
 XX
 PS Example 12; Fig 1C; 101pp; English.
 PS
 XX The present invention describes a method for determining the total
 CC microbial content in a sample, comprising amplifying a target nucleotide
 CC sequence which is substantially conserved amongst 2 or more species of
 CC microorganisms. Also describes an isolated polynucleotide (I) or its
 CC complement having a nucleotide sequence which is comprised by 16S rDNA or
 CC 16S rRNA, substantially conserved amongst two or more species of
 CC microorganism. (I) can be used: (1) as a primer or probe for determining
 CC the total microbial content in a sample; (2) as a primer or probe for
 CC identifying a microorganism by its genus in a sample; and (3) as a probe
 CC for identifying a particular microorganism or prevalence of a particular
 CC genus or species of microorganism, in a sample. (I) can also be used to
 CC identify microorganisms at the genus or species level, and as a trap for
 CC total microbial-derived target material; in assessing encephalitis and
 CC distinguishing between microbial and viral encephalitis. (I) is
 CC applicable to a range of industries including the medical, agricultural
 CC and industrial industries with specific uses including enviroprotection,
 CC bioremediation, medical diagnosis, water quality control or food quality
 CC control. (I) provides an ability to detect bacteria from samples which
 CC are difficult to cultivate and that would in all practicality remain
 CC undetected or under-estimated by viable culture count methods and enables
 CC rapid differentiation of bacteria from viral infections within the
 CC limited time constraints sometimes experienced in life-threatening
 CC clinical situations. ABL59702 to ABL59821 represent 16S rDNA fragments,
 CC and ABL59822 to ABL59830 represent primers and probes, used in the
 CC exemplification of the present invention
 XX
 SQ Sequence 50 BP; 14 A; 12 C; 16 G; 8 T; 0 U; 0 Other;
 Query Match 100.0%; Score 20; DB 6; Length 50;
 Best Local Similarity 100.0%; Pred. No. 0.098;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GCACACAGGATTAGATACCC 20
 DB 16 GCACACAGGATTAGATACCC 35
 RESULT 7
 ABL59817
 ID ABL59817 standard; DNA; 50 BP.
 XX
 AC ABL59817;
 XX
 XX 18-JUL-2002 (first entry)
 DT
 XX
 XX Peptostreptococcus micros 16S rDNA fragment #3.
 DE
 XX
 XX Detection; microorganism; 16S rDNA; 16S rRNA; identification; gene;
 KW microbial encephalitis; viral encephalitis; ds.
 KW
 XX Peptostreptococcus micros.
 OS
 XX
 XX WO200210444-A1.
 PN
 XX
 XX 07-FEB-2002.
 PD
 XX
 XX 27-JUL-2001; 2001WO-AU000933.
 PF
 XX
 XX 28-JUL-2000; 2000AU-00009090.
 PR
 XX
 XX (UNSY) UNIV SYDNEY.
 PA
 XX
 XX Hunter N, Jacques NA, Martin FE, Nadkarni MA;
 PI

XX WPI; 2002-404428/43.
 DR
 XX
 PT Polynucleotide useful as primer or probe for determining microbial
 PT content in sample, has sequence which is comprised by 16S rDNA or 16S
 PT rRNA, substantially conserved amongst two or more species of
 PT microorganism.
 XX
 XX
 PS Example 12; Fig 1C; 101pp; English.
 PS
 XX The present invention describes a method for determining the total
 CC microbial content in a sample, comprising amplifying a target nucleotide
 CC sequence which is substantially conserved amongst 2 or more species of
 CC microorganisms. Also describes an isolated polynucleotide (I) or its
 CC complement having a nucleotide sequence which is comprised by 16S rDNA or
 CC 16S rRNA, substantially conserved amongst two or more species of
 CC microorganism. (I) can be used: (1) as a primer or probe for determining
 CC the total microbial content in a sample; (2) as a primer or probe for
 CC identifying a microorganism by its genus in a sample; and (3) as a probe
 CC for identifying a particular microorganism or prevalence of a particular
 CC genus or species of microorganism, in a sample. (I) can also be used to
 CC identify microorganisms at the genus or species level, and as a trap for
 CC total microbial-derived target material; in assessing encephalitis and
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 CC control. (I) provides an ability to detect bacteria from samples which
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 CC undetected or under-estimated by viable culture count methods and enables
 CC rapid differentiation of bacteria from viral infections within the
 CC limited time constraints sometimes experienced in life-threatening
 CC clinical situations. ABL59702 to ABL59821 represent 16S rDNA fragments,
 CC and ABL59822 to ABL59830 represent primers and probes, used in the
 CC exemplification of the present invention
 XX
 SQ Sequence 50 BP; 15 A; 12 C; 15 G; 8 T; 0 U; 0 Other;
 Query Match 100.0%; Score 20; DB 6; Length 50;
 Best Local Similarity 100.0%; Pred. No. 0.098;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GCACACAGGATTAGATACCC 20
 DB 16 GCACACAGGATTAGATACCC 35
 RESULT 8
 ABL59820
 ID ABL59820 standard; DNA; 50 BP.
 XX
 AC ABL59820;
 XX
 XX 18-JUL-2002 (first entry)
 DT
 XX
 XX Chlamydia trachomatis 16S rDNA fragment #3.
 DE
 XX
 XX Detection; microorganism; 16S rDNA; 16S rRNA; identification; gene;
 KW microbial encephalitis; viral encephalitis; ds.
 KW
 XX Chlamydia trachomatis.
 OS
 XX
 XX WO200210444-A1.
 PN
 XX
 XX 07-FEB-2002.
 PD
 XX
 XX 27-JUL-2001; 2001WO-AU000933.
 PF
 XX
 XX 28-JUL-2000; 2000AU-00009090.
 PR
 XX
 XX (UNSY) UNIV SYDNEY.
 PA
 XX
 XX Hunter N, Jacques NA, Martin FE, Nadkarni MA;
 PI

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XX WPI; 2002-404428/43.
XX
XX PT Polynucleotide useful as primer or probe for determining microbial
XX PT content in sample, has sequence which is comprised by 16S rDNA or 16S
XX PT rRNA, substantially conserved amongst two or more species of
XX PT microorganism.
XX
XX PS Example 12; Fig 1C; 10lpp; English.
XX
XX CC The present invention describes a method for determining the total
XX CC microbial content in a sample, comprising amplifying a target nucleotide
XX CC sequence which is substantially conserved amongst 2 or more species of
XX CC microorganisms. Also describes is an isolated polynucleotide (1) or its
XX CC complement having a nucleotide sequence which is comprised by 16S rDNA or
XX CC 16S rRNA, substantially conserved amongst two or more species of
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XX CC the total microbial content in a sample; (2) as a primer or probe for
XX CC identifying a microorganism by its genus in a sample; and (3) as a probe
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XX CC genus or species of microorganism, in a sample. (1) can also be used to
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XX CC undetected or under-estimated by viable culture count methods and enables
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XX CC limited time constraints sometimes experienced in life-threatening
XX CC clinical situations. ABL59702 to ABL59821 represent 16S rDNA fragments,
XX CC and ABL59822 to ABL59830 represent primers and probes, used in the
XX CC exemplification of the present invention
XX
XX SQ Sequence 50 BP; 15 A; 11 C; 16 G; 8 T; 0 U; 0 Other;
      Query Match      100.0%; Score 20; DB 6; Length 50;
      Best Local Similarity 100.0%; Pred. No. 0.098;
      Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
Db 16 GCAACAGGATTAGATACCC 35

RESULT 9
ABL59819
ID ABL59819 standard; DNA; 50 BP.
XX
XX AC ABL59819;
XX
XX DT 18-JUL-2002 (first entry)
XX
XX DE Fusobacterium nucleatum 16S rDNA fragment #3.
XX
XX KW Detection; microorganism; 16S rDNA; 16S rRNA; identification; gene;
XX KW Microbial encephalitis; viral encephalitis; ds.
XX
XX OS Fusobacterium nucleatum.
XX
XX PN WO200210444-A1.
XX
XX PD 07-FEB-2002.
XX
XX PF 27-JUL-2001; 2001WO-AU000933.
XX
XX PR 28-JUL-2000; 2000AU-00009090.
XX
XX PA (UNSY ) UNIV SYDNEY.
XX
XX PI Hunter N, Jacques NA, Martin FE, Nadkarni MA;

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XX WPI; 2002-404428/43.
XX
XX PT Polynucleotide useful as primer or probe for determining microbial
XX PT content in sample, has sequence which is comprised by 16S rDNA or 16S
XX PT rRNA, substantially conserved amongst two or more species of
XX PT microorganism.
XX
XX PS Example 12; Fig 1C; 10lpp; English.
XX
XX CC The present invention describes a method for determining the total
XX CC microbial content in a sample, comprising amplifying a target nucleotide
XX CC sequence which is substantially conserved amongst 2 or more species of
XX CC microorganisms. Also describes is an isolated polynucleotide (1) or its
XX CC complement having a nucleotide sequence which is comprised by 16S rDNA or
XX CC 16S rRNA, substantially conserved amongst two or more species of
XX CC microorganism. (1) can be used: (1) as a primer or probe for determining
XX CC the total microbial content in a sample; (2) as a primer or probe for
XX CC identifying a microorganism by its genus in a sample; and (3) as a probe
XX CC for identifying a particular microorganism or prevalence of a particular
XX CC genus or species of microorganism, in a sample. (1) can also be used to
XX CC identify microorganisms at the genus or species level, and as a trap for
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XX CC rapid differentiation of bacteria from viral infections within the
XX CC limited time constraints sometimes experienced in life-threatening
XX CC clinical situations. ABL59702 to ABL59821 represent 16S rDNA fragments,
XX CC and ABL59822 to ABL59830 represent primers and probes, used in the
XX CC exemplification of the present invention
XX
XX SQ Sequence 50 BP; 14 A; 12 C; 16 G; 8 T; 0 U; 0 Other;
      Query Match      100.0%; Score 20; DB 6; Length 50;
      Best Local Similarity 100.0%; Pred. No. 0.098;
      Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACAGGATTAGATACCC 20
Db 16 GCAACAGGATTAGATACCC 35

RESULT 10
ABL59786
ID ABL59786 standard; DNA; 50 BP.
XX
XX AC ABL59786;
XX
XX DT 18-JUL-2002 (first entry)
XX
XX DE Campylobacter jejuni 16S rDNA fragment #3.
XX
XX KW Detection; microorganism; 16S rDNA; 16S rRNA; identification; gene;
XX KW Microbial encephalitis; viral encephalitis; ds.
XX
XX OS Campylobacter jejuni.
XX
XX PN WO200210444-A1.
XX
XX PD 07-FEB-2002.
XX
XX PF 27-JUL-2001; 2001WO-AU000933.
XX
XX PR 28-JUL-2000; 2000AU-00009090.
XX
XX PA (UNSY ) UNIV SYDNEY.
XX
XX PI Hunter N, Jacques NA, Martin FE, Nadkarni MA;

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XX WPI; 2002-404428/43.
 XX
 PT Polynucleotide useful as primer or probe for determining microbial
 PT content in sample, has sequence which is comprised by 16S rDNA or 16S
 PT rRNA, substantially conserved amongst two or more species of
 PT microorganism.
 XX
 XX
 PS Example 12; Fig 1C; 101pp; English.
 XX
 CC The present invention describes a method for determining the total
 CC microbial content in a sample, comprising amplifying a target nucleotide
 CC sequence which is substantially conserved amongst 2 or more species of
 CC microorganisms. Also describes an isolated polynucleotide (1) or its
 CC complement having a nucleotide sequence which is comprised by 16S rDNA or
 CC 16S rRNA, substantially conserved amongst two or more species of
 CC microorganism. (1) can be used: (1) as a primer or probe for determining
 CC the total microbial content in a sample; (2) as a primer or probe for
 CC identifying a microorganism by its genus in a sample; and (3) as a probe
 CC for identifying a particular microorganism or prevalence of a particular
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 CC and industrial industries with specific uses including environmental protection,
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 CC undetected or under-estimated by viable culture count methods and enables
 CC rapid differentiation of bacteria from viral infections within the
 CC limited time constraints sometimes experienced in life-threatening
 CC clinical situations. ABL59702 to ABL59821 represent 16S rDNA fragments,
 CC and ABL59822 to ABL59830 represent primers and probes, used in the
 CC exemplification of the present invention
 XX
 SQ Sequence 50 BP; 14 A; 13 C; 16 G; 7 T; 0 U; 0 Other;
 Query Match 100.0%; Score 20; DB 6; Length 50;
 Best Local Similarity 100.0%; Pred. No. 0.098;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 GCAACAGGATTAGATACCC 20
 |||||
 Db 16 GCAACAGGATTAGATACCC 35
 RESULT 11
 ABL59805
 ID ABL59805 standard; DNA; 50 BP.
 XX
 AC ABL59805;
 XX
 DT 18-JUL-2002 (first entry)
 XX
 DE Myxococcus xanthus 16S rDNA fragment #3.
 XX
 KW Detection; microorganism; 16S rDNA; 16S rRNA; identification; gene;
 KW microbial encephalitis; viral encephalitis; ds.
 XX
 OS Myxococcus xanthus.
 XX
 PN WO200210444-A1.
 XX
 PD 07-FEB-2002.
 XX
 PF 27-JUL-2001; 2001WO-AU000933.
 XX
 PR 28-JUL-2000; 2000AU-00009090.
 XX
 PA (UNSY) UNIV SYDNEY.
 XX
 PI Hunter N, Jacques NA, Martin PE, Nadkarni MA;

XX WPI; 2002-404428/43.
 XX
 PT Polynucleotide useful as primer or probe for determining microbial
 PT content in sample, has sequence which is comprised by 16S rDNA or 16S
 PT rRNA, substantially conserved amongst two or more species of
 PT microorganism.
 XX
 XX
 PS Example 12; Fig 1C; 101pp; English.
 XX
 CC The present invention describes a method for determining the total
 CC microbial content in a sample, comprising amplifying a target nucleotide
 CC sequence which is substantially conserved amongst 2 or more species of
 CC microorganisms. Also describes an isolated polynucleotide (1) or its
 CC complement having a nucleotide sequence which is comprised by 16S rDNA or
 CC 16S rRNA, substantially conserved amongst two or more species of
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 CC the total microbial content in a sample; (2) as a primer or probe for
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 CC limited time constraints sometimes experienced in life-threatening
 CC clinical situations. ABL59702 to ABL59821 represent 16S rDNA fragments,
 CC and ABL59822 to ABL59830 represent primers and probes, used in the
 CC exemplification of the present invention
 XX
 SQ Sequence 50 BP; 14 A; 13 C; 16 G; 7 T; 0 U; 0 Other;
 Query Match 100.0%; Score 20; DB 6; Length 50;
 Best Local Similarity 100.0%; Pred. No. 0.098;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 GCAACAGGATTAGATACCC 20
 |||||
 Db 16 GCAACAGGATTAGATACCC 35
 RESULT 12
 ABL59787
 ID ABL59787 standard; DNA; 50 BP.
 XX
 AC ABL59787;
 XX
 DT 18-JUL-2002 (first entry)
 XX
 DE Helicobacter pylori 16S rDNA fragment #3.
 XX
 KW Detection; microorganism; 16S rDNA; 16S rRNA; identification; gene;
 KW microbial encephalitis; viral encephalitis; ds.
 XX
 OS Helicobacter pylori.
 XX
 PN WO200210444-A1.
 XX
 PD 07-FEB-2002.
 XX
 PF 27-JUL-2001; 2001WO-AU000933.
 XX
 PR 28-JUL-2000; 2000AU-00009090.
 XX
 PA (UNSY) UNIV SYDNEY.
 XX
 PI Hunter N, Jacques NA, Martin PE, Nadkarni MA;

XX WPI; 2002-404428/43.
 XX
 PT Polynucleotide useful as primer or probe for determining microbial
 PT content in sample, has sequence which is comprised by 16S rDNA or 16S
 PT rRNA, substantially conserved amongst two or more species of
 PT microorganism.
 XX
 PS Example 12; Fig 1C; 10lpp; English.
 XX
 CC The present invention describes a method for determining the total
 CC microbial content in a sample, comprising amplifying a target nucleotide
 CC sequence which is substantially conserved amongst 2 or more species of
 CC microorganisms. Also describes is an isolated polynucleotide (I) or its
 CC complement having a nucleotide sequence which is comprised by 16S rDNA or
 CC 16S rRNA, substantially conserved amongst two or more species of
 CC microorganism. (I) can be used: (1) as a primer or probe for determining
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 CC limited time constraints sometimes experienced in life-threatening
 CC clinical situations. ABL59702 to ABL59821 represent 16S rDNA fragments,
 CC and ABL59822 to ABL59830 represent primers and probes, used in the
 CC exemplification of the present invention
 XX
 SQ Sequence 50 BP; 14 A; 13 C; 16 G; 7 T; 0 U; 0 Other;
 Query Match 100.0%; Score 20; DB 6; Length 50;
 Best Local Similarity 100.0%; Pred. No. 0.098;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GCAACAGGATTAGATACCC 20
 Db 16 GCAACAGGATTAGATACCC 35
 RESULT 13
 ABL59796
 ID ABL59796 standard; DNA; 50 BP.
 AC ABL59796;
 XX
 XX 18-JUL-2002 (first entry)
 DT
 XX
 XX Salmonella typhi 16S rDNA fragment #3.
 DE
 XX
 XX Detection; microorganism; 16S rDNA; 16S rRNA; identification; gene;
 KW microbial encephalitis; viral encephalitis; ds.
 XX
 XX Salmonella typhi.
 OS
 XX WO200210444-A1.
 PN
 XX 07-FEB-2002.
 PD
 XX
 XX 27-JUL-2001; 2001WO-AU000933.
 PF
 XX 28-JUL-2000; 2000AU-00009090.
 PR
 XX (UNSY) UNIV SYDNEY.
 XX
 XX Hunter N, Jacques NA, Martin FE, Nadkarni MA;
 XX
 PI

XX WPI; 2002-404428/43.
 XX
 PT Polynucleotide useful as primer or probe for determining microbial
 PT content in sample, has sequence which is comprised by 16S rDNA or 16S
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 XX
 PS Example 12; Fig 1C; 10lpp; English.
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 CC microbial content in a sample, comprising amplifying a target nucleotide
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 CC limited time constraints sometimes experienced in life-threatening
 CC clinical situations. ABL59702 to ABL59821 represent 16S rDNA fragments,
 CC and ABL59822 to ABL59830 represent primers and probes, used in the
 CC exemplification of the present invention
 XX
 SQ Sequence 50 BP; 14 A; 12 C; 17 G; 7 T; 0 U; 0 Other;
 Query Match 100.0%; Score 20; DB 6; Length 50;
 Best Local Similarity 100.0%; Pred. No. 0.098;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GCAACAGGATTAGATACCC 20
 Db 16 GCAACAGGATTAGATACCC 35
 RESULT 14
 ABL59799
 ID ABL59799 standard; DNA; 50 BP.
 AC ABL59799;
 XX
 XX 18-JUL-2002 (first entry)
 DT
 XX
 XX Legionella pneumophila 16S rDNA fragment #3.
 DE
 XX
 XX Detection; microorganism; 16S rDNA; 16S rRNA; identification; gene;
 KW microbial encephalitis; viral encephalitis; ds.
 XX
 XX Legionella pneumophila.
 OS
 XX WO200210444-A1.
 PN
 XX 07-FEB-2002.
 PD
 XX
 XX 27-JUL-2001; 2001WO-AU000933.
 PF
 XX 28-JUL-2000; 2000AU-00009090.
 PR
 XX (UNSY) UNIV SYDNEY.
 XX
 XX Hunter N, Jacques NA, Martin FE, Nadkarni MA;
 XX
 PI

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XX DR WPI; 2002-404428/43.
XX DR
XX PT Polynucleotide useful as primer or probe for determining microbial
XX PT content in sample, has sequence which is comprised by 16S rDNA or 16S
XX PT rRNA, substantially conserved amongst two or more species of
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XX PS
XX PS Example 12; Fig 1C; 101pp; English.
XX CC
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XX CC microbial content in a sample, comprising amplifying a target nucleotide
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XX CC total microbial-derived target material, in assessing encephalitis and
XX CC distinguishing between microbial and viral encephalitis. (1) is
XX CC applicable to a range of industries including the medical, agricultural
XX CC and industrial industries with specific uses including enviroprotection,
XX CC bioremediation, medical diagnosis, water quality control or food quality
XX CC control. (1) provides an ability to detect bacteria from samples which
XX CC are difficult to cultivate and that would in all practicality remain
XX CC undetected or under-estimated by viable culture count methods and enables
XX CC rapid differentiation of bacteria from viral infections within the
XX CC limited time constraints sometimes experienced in life-threatening
XX CC clinical situations. ABL59702 to ABL59821 represent 16S rDNA fragments,
XX CC and ABL59822 to ABL59830 represent primers and probes, used in the
XX CC exemplification of the present invention
XX SQ Sequence 50 BP; 15 A; 11 C; 16 G; 8 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 6; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.098;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACACAGGATTAGATACCC 20
DB 16 GCAACACAGGATTAGATACCC 35

RESULT 15
ABL59801
AC ABL59801 standard; DNA; 50 BP.
AC ABL59801;
XX 18-JUL-2002 (first entry)
XX Caulobacter vibrioides 16S rDNA fragment #3.
DE Detection; microorganism; 16S rDNA; 16S rRNA; identification; gene;
KW microbial encephalitis; viral encephalitis; ds.
XX Caulobacter vibrioides.
XX WO200210444-A1.
XX 07-FEB-2002.
XX 27-JUL-2001; 2001WO-AU000933.
XX 28-JUL-2000; 2000AU-00009090.
XX (UNSY ) UNIV SYDNEY.
XX Hunter N, Jacques NA, Martin PE, Nadkarni MA;

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XX DR WPI; 2002-404428/43.
XX DR
XX PT Polynucleotide useful as primer or probe for determining microbial
XX PT content in sample, has sequence which is comprised by 16S rDNA or 16S
XX PT rRNA, substantially conserved amongst two or more species of
XX PT microorganism.
XX PS
XX PS Example 12; Fig 1C; 101pp; English.
XX CC
XX CC The present invention describes a method for determining the total
XX CC microbial content in a sample, comprising amplifying a target nucleotide
XX CC sequence which is substantially conserved amongst 2 or more species of
XX CC microorganisms. Also describes is an isolated polynucleotide (1) or its
XX CC complement having a nucleotide sequence which is comprised by 16S rDNA or
XX CC 16S rRNA, substantially conserved amongst two or more species of
XX CC microorganism. (1) can be used: (1) as a primer or probe for determining
XX CC the total microbial content in a sample; (2) as a primer or probe for
XX CC identifying a microorganism by its genus in a sample; and (3) as a probe
XX CC for identifying a particular microorganism or prevalence of a particular
XX CC genus or species of microorganism, in a sample. (1) can also be used to
XX CC identify microorganisms at the genus or species level, and as a trap for
XX CC total microbial-derived target material, in assessing encephalitis and
XX CC distinguishing between microbial and viral encephalitis. (1) is
XX CC applicable to a range of industries including the medical, agricultural
XX CC and industrial industries with specific uses including enviroprotection,
XX CC bioremediation, medical diagnosis, water quality control or food quality
XX CC control. (1) provides an ability to detect bacteria from samples which
XX CC are difficult to cultivate and that would in all practicality remain
XX CC undetected or under-estimated by viable culture count methods and enables
XX CC rapid differentiation of bacteria from viral infections within the
XX CC limited time constraints sometimes experienced in life-threatening
XX CC clinical situations. ABL59702 to ABL59821 represent 16S rDNA fragments,
XX CC and ABL59822 to ABL59830 represent primers and probes, used in the
XX CC exemplification of the present invention
XX SQ Sequence 50 BP; 14 A; 12 C; 16 G; 8 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 6; Length 50;
Best Local Similarity 100.0%; Pred. No. 0.098;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCAACACAGGATTAGATACCC 20
DB 16 GCAACACAGGATTAGATACCC 35

Search completed: August 4, 2004, 06:43:33
Job time : 166.337 secs

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